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OF THE

Royal Asiatic Society.

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HAND-BOOK

OF

CYCLONIC STORMS IN THE BAY OF BENGAL.

FOR THE USE OF SAILORS.

VOL. II—PLATES

BY

JOHN ELIOT, M.A., F.R.S., C.I.E.,

METEOROLOGICAL REPORTER TO THE GOVERNMENT OF INDIA AND DIRECTOR GENERAL OF INDIAN OBSERVATORIES.

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CURVE SHEWING MEAN DIURNAL OSCILLATION OF BAROMETER IN BAY OF BENGAL.

From Lat. 0° to 10° N. and Long. 80° to 90° E.

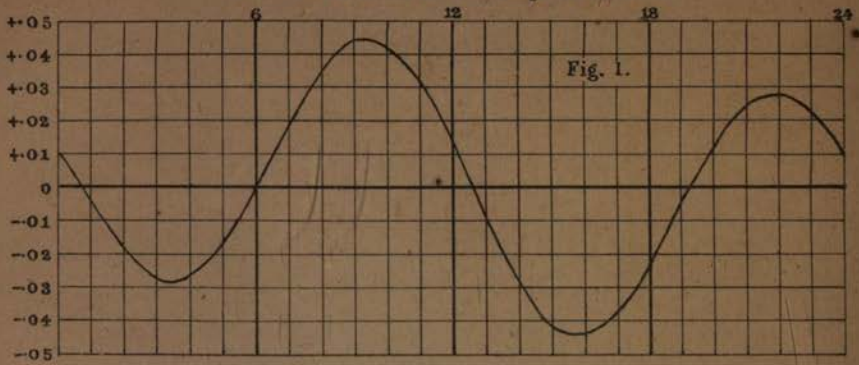


Fig. 1.

CURVE SHEWING MEAN DIURNAL OSCILLATION OF BAROMETER IN BAY OF BENGAL.

From Lat. 10° to 20° N. and Long. 80° to 90° E.

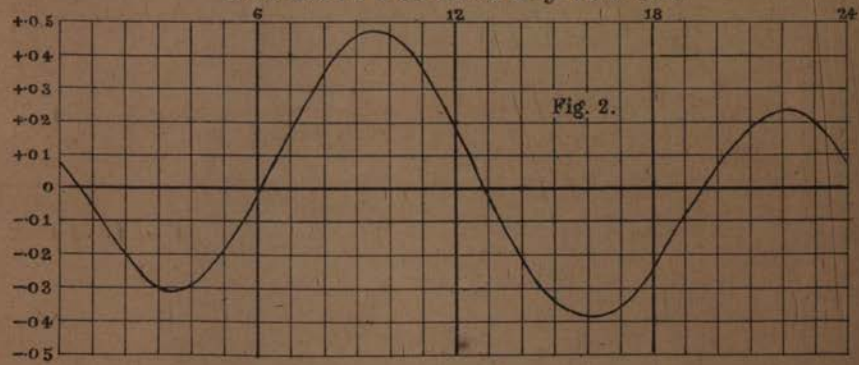


Fig. 2.

CURVE SHEWING MEAN DIURNAL OSCILLATION OF BAROMETER IN BAY OF BENGAL.

From Lat. 0° to 20° N. and Long. 90° to 100° E.

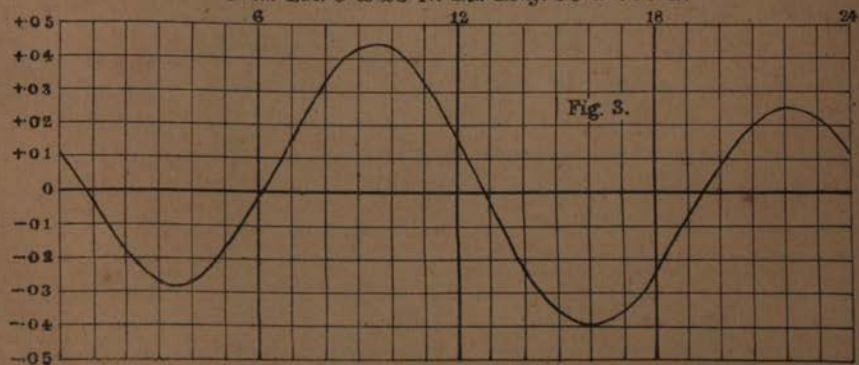


Fig. 3.

Litho. By J. N. Mandle.

CURVE SHEWING MEAN DIURNAL OSCILLATION OF BAROMETER IN BAY OF BENGAL.

From Lat. 10° to 20° N. and Long. 90° to 100° E.

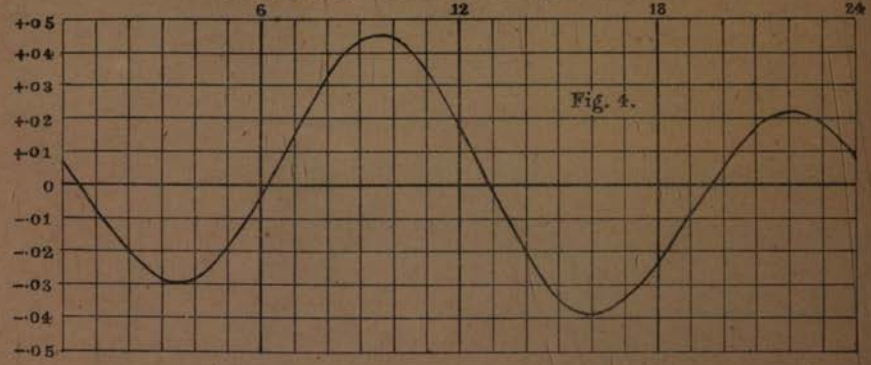


Fig. 4.

CURVE SHEWING MEAN DIURNAL OSCILLATION OF BAROMETER IN BAY OF BENGAL.

From Lat. 0° to 20° N. and Long. 80° to 100° E.

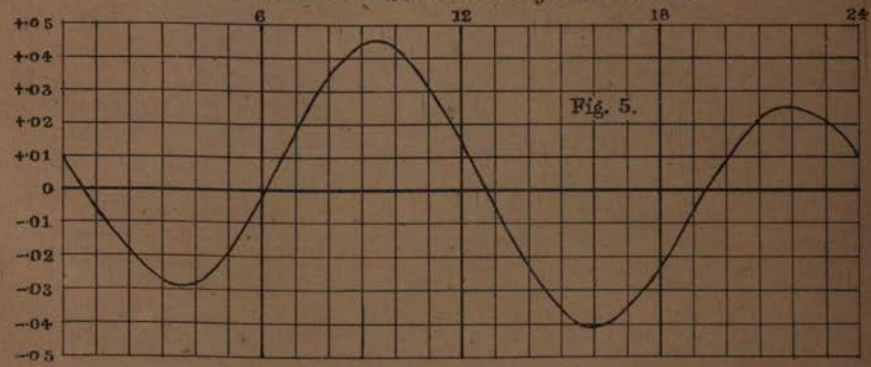
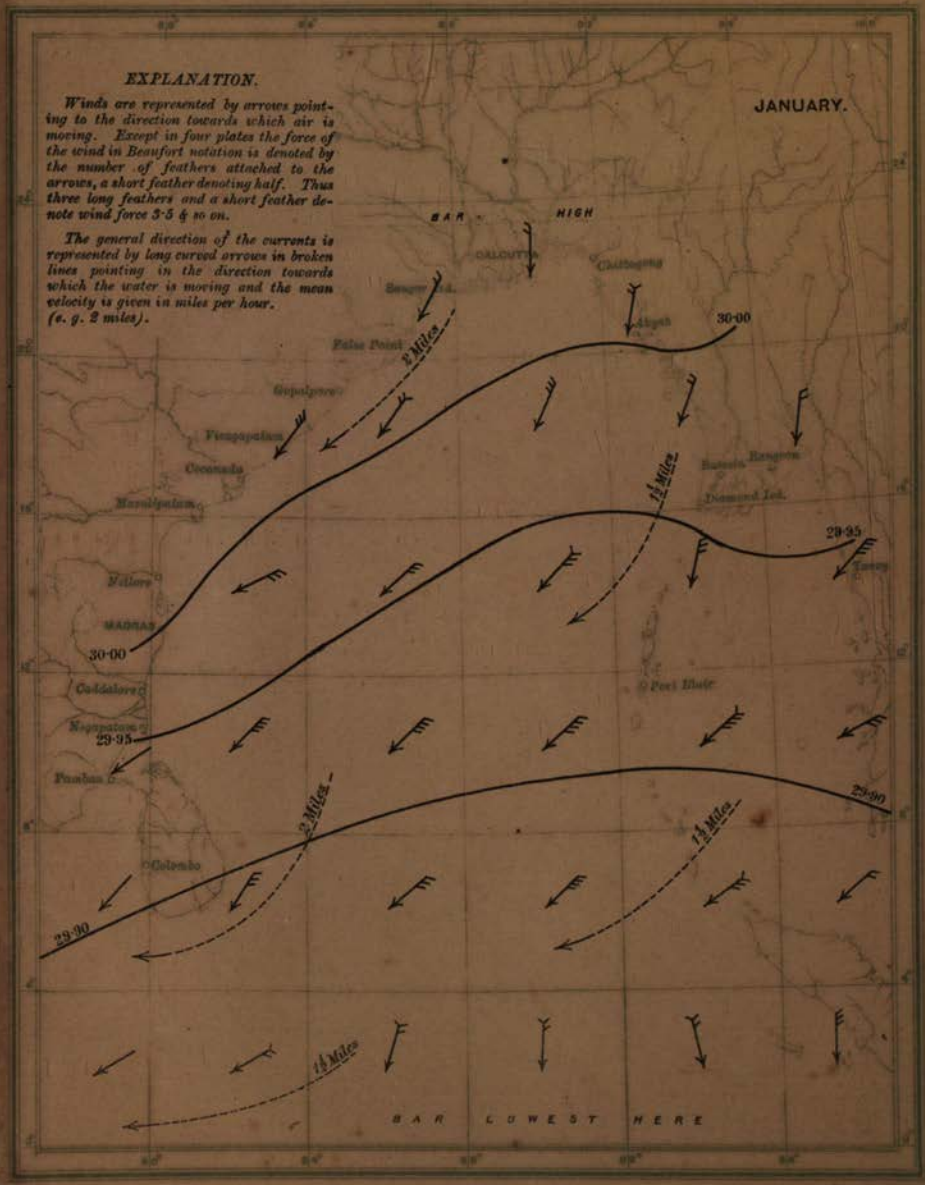


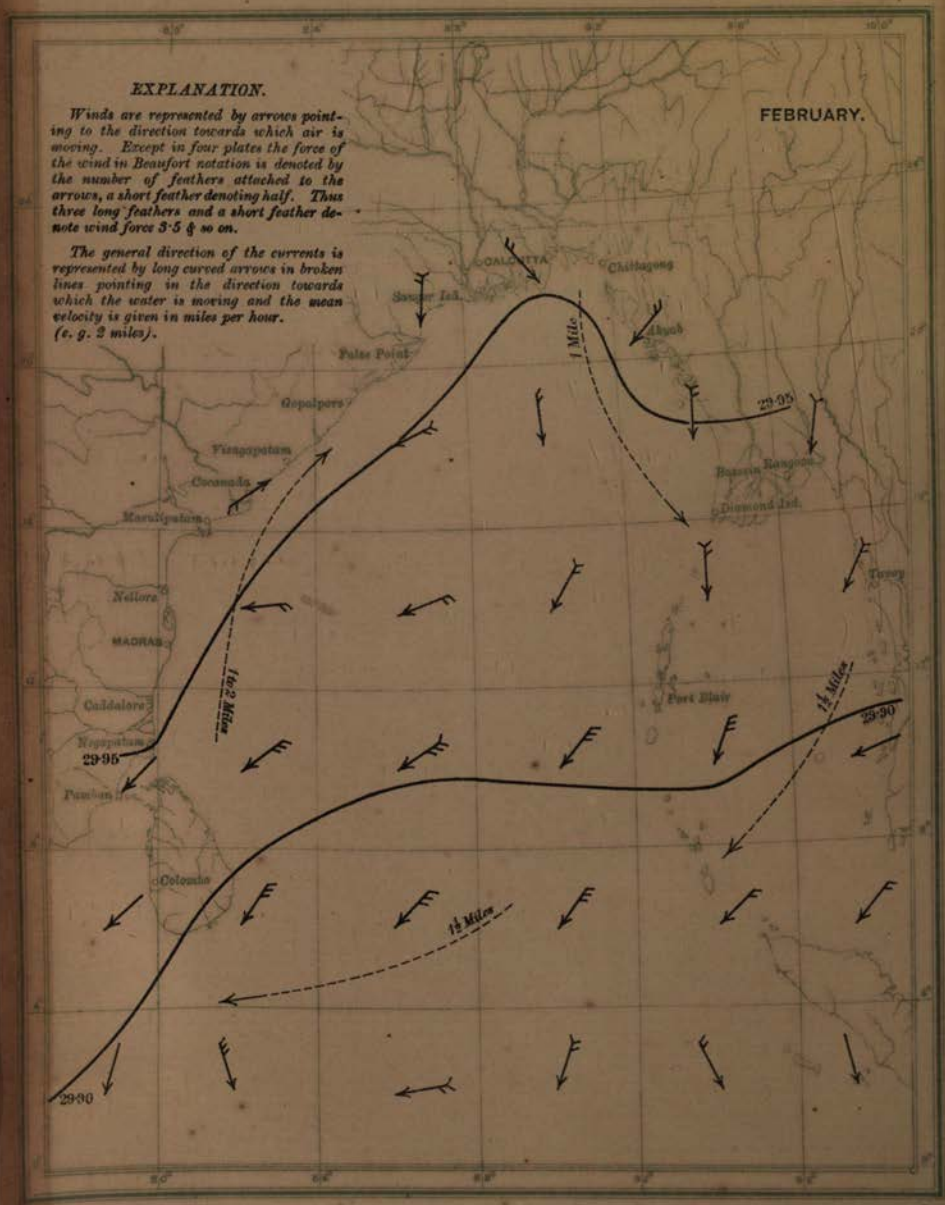
Fig. 5.

Lithe. By J. H. Mundle.

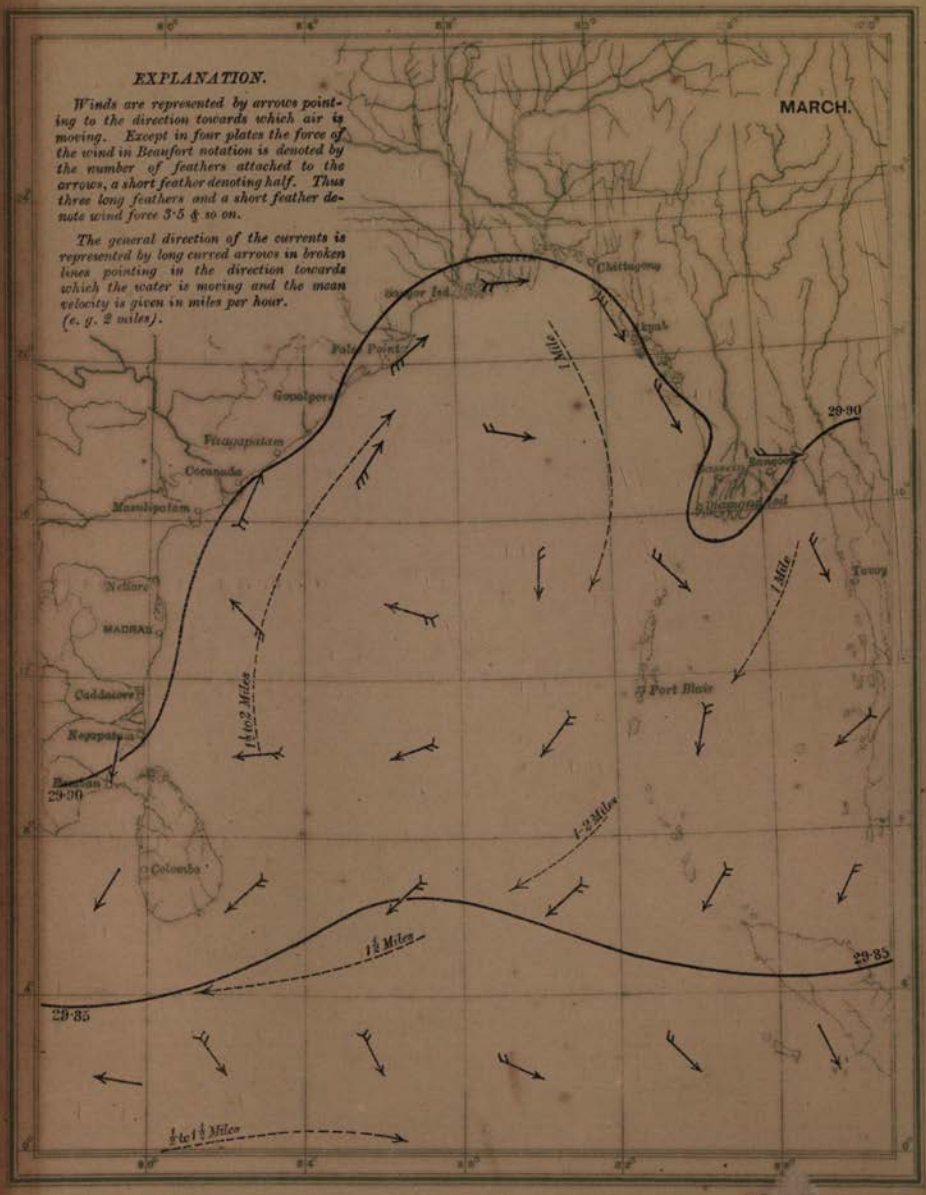
MEAN 8 A. M. BAROMETRIC HEIGHT REDUCED TO SEA-LEVEL AND CONSTANT GRAVITY AT LAT. 45°, MEAN DAILY WIND DIRECTION AND MEAN CURRENT DIRECTIONS FOR MONTH OF JANUARY IN BAY OF BENGAL.



MEAN 8 A. M. BAROMETRIC HEIGHT REDUCED TO SEA-LEVEL AND CONSTANT GRAVITY AT LAT. 45°, MEAN DAILY WIND DIRECTION AND MEAN CURRENT DIRECTIONS FOR MONTH OF FEBRUARY IN BAY OF BENGAL.


EXPLANATION.
Winds are represented by arrows pointing to the direction towards which air is moving. Except in four plates the force of the wind in Beaufort notation is denoted by the number of feathers attached to the arrows, a short feather denoting half. Thus three long feathers and a short feather denote wind force 3·5 & so on.
The general direction of the currents is represented by long curved arrows in broken lines pointing in the direction towards which the water is moving and the mean velocity is given in miles per hour. (e. g. 2 miles).
FEBRUARY.
CALCUTTA
Chittagong
Saugor Isd.
Akyab
Pulse Point
1 Mile.
29·95
Gopalpore
Vizagapatam
Cocanada
Masulipatam
Nellore
MADRAS
Caddalore
Negapatam
Pamban
Colombo
Port Blair
Diamond Isd.
Tenas
1½ Miles
29·90
29·80

MEAN 8 A. M. BAROMETRIC HEIGHT REDUCED TO SEA-LEVEL AND CONSTANT GRAVITY AT LAT. 45°, MEAN DAILY WIND DIRECTION AND MEAN CURRENT DIRECTIONS FOR MONTH OF MARCH IN BAY OF BENGAL.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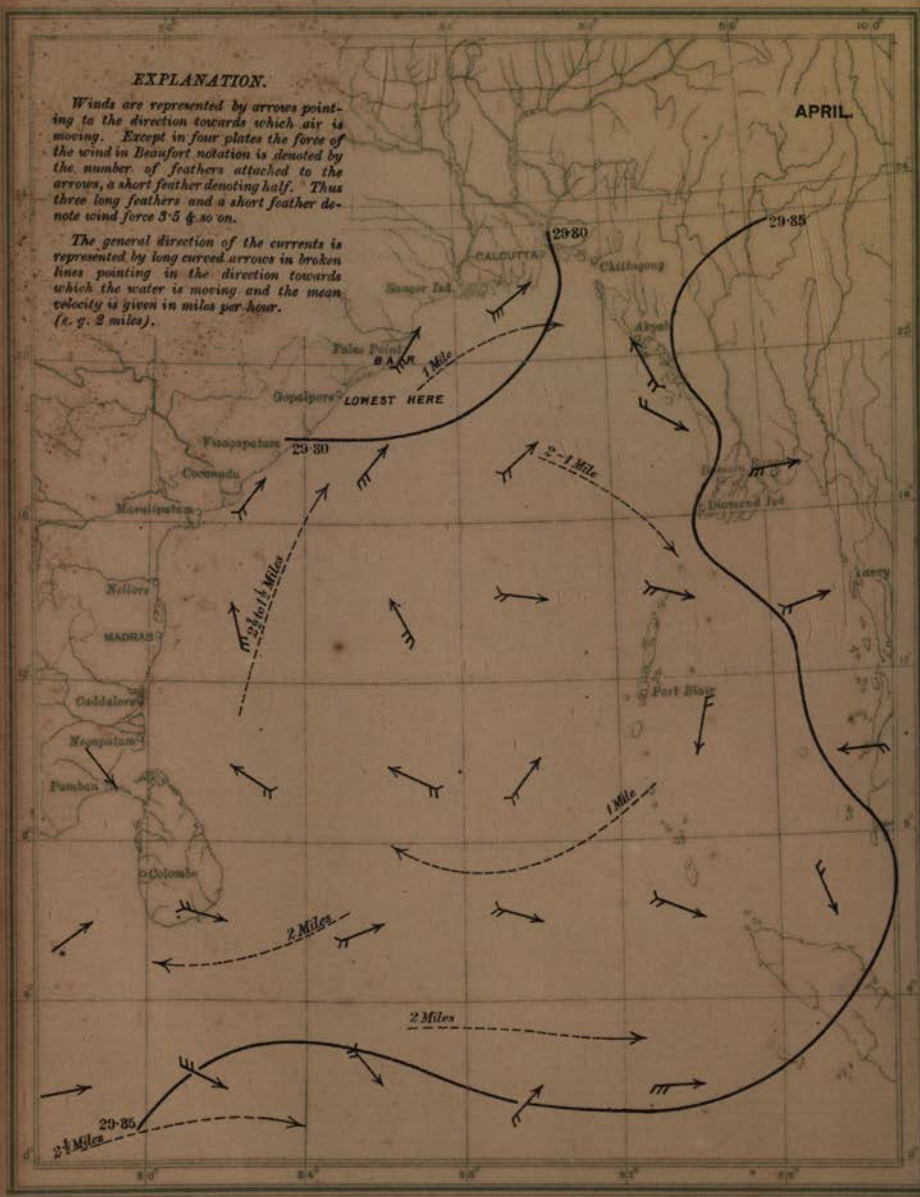
The general direction of the currents is represented by long curved arrows in broken lines pointing in the direction towards which the water is moving and the mean velocity is given in miles per hour. (e. g. 2 miles).
MARCH.
Chittagong
Gopalpur
Vizagapatam
Cocanada
Masulipatam
Nellore
MADRAS
Cuddalore
Negapatam
Colombo
Port Blair
Tavoy
1 Mile
1 to 2 Miles
1-2 Miles
1½ Miles
½ to 1½ Miles
29·90
29·85

MEAN 8 A. M. BAROMETRIC HEIGHT REDUCED TO SEA-LEVEL AND CONSTANT GRAVITY AT LAT. 45°, MEAN DAILY WIND DIRECTION AND MEAN CURRENT DIRECTIONS FOR MONTH OF APRIL IN BAY OF BENGAL.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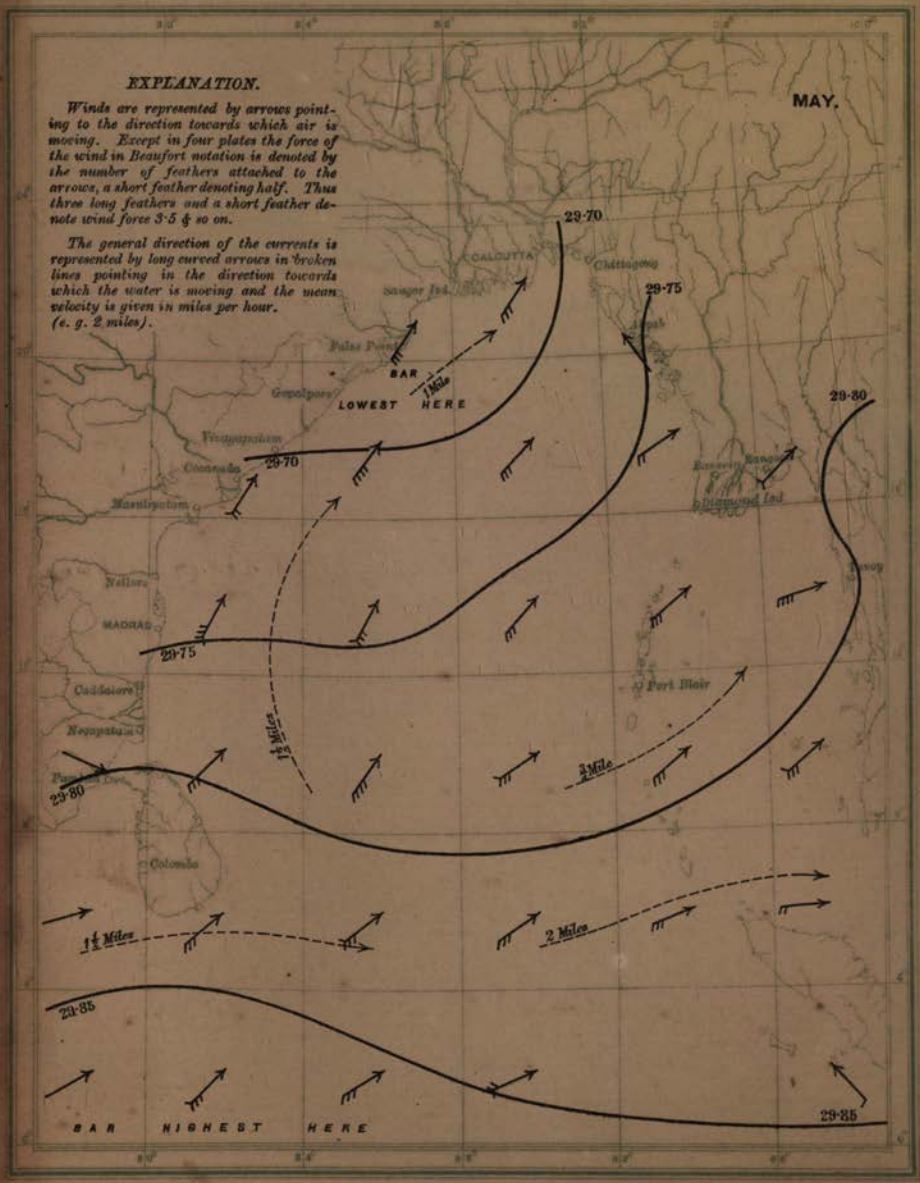
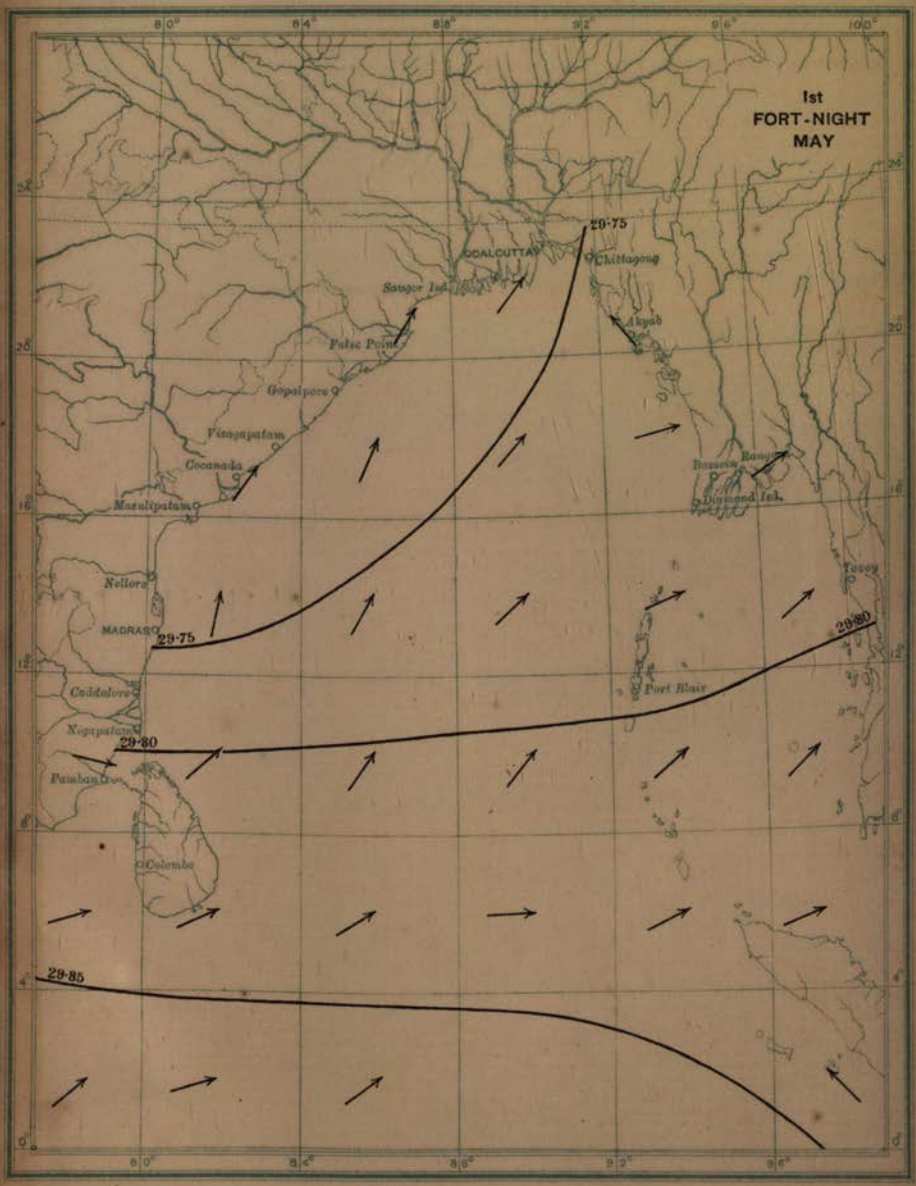
Winds are represented by arrows pointing to the direction towards which air is moving. Except in four plates the force of the wind in Beaufort notation is denoted by the number of feathers attached to the arrows, a short feather denoting half. Thus three long feathers and a short feather denote wind force 3·5 & so on.
The general direction of the currents is represented by long curved arrows in broken lines pointing in the direction towards which the water is moving and the mean velocity is given in miles per hour. (e. g. 2 miles).
APRIL.
29·80
29·85
29·30
29·35
CALCUTTA
Chittagong
Sagor Isd.
Akyab
Pales Point
BAR
1 Mile
Gopalpore
LOWEST HERE
Vizagapatam
Cocanada
Masulipatam
2-1 Mile
Diamond Isd
Nellore
MADRAS
2 to 2½ Miles
Port Blair
Cuddalore
Negapatam
Pamban
1 Mile
Colombo
2 Miles
2 Miles
2½ Miles

MEAN 8 A. M. BAROMETRIC HEIGHT REDUCED TO SEA-LEVEL AND CONSTANT GRAVITY AT LAT. 45°, MEAN DAILY WIND DIRECTION AND MEAN CURRENT DIRECTIONS FOR MONTH OF MAY IN BAY OF BENGAL.



MEAN 8 A. M. BAROMETRIC HEIGHT REDUCED TO SEA-LEVEL AND CONSTANT GRAVITY AT LAT. 45°, AND MEAN DAILY WIND DIRECTION FOR FIRST FORT-NIGHT OF MAY IN BAY OF BENGAL.



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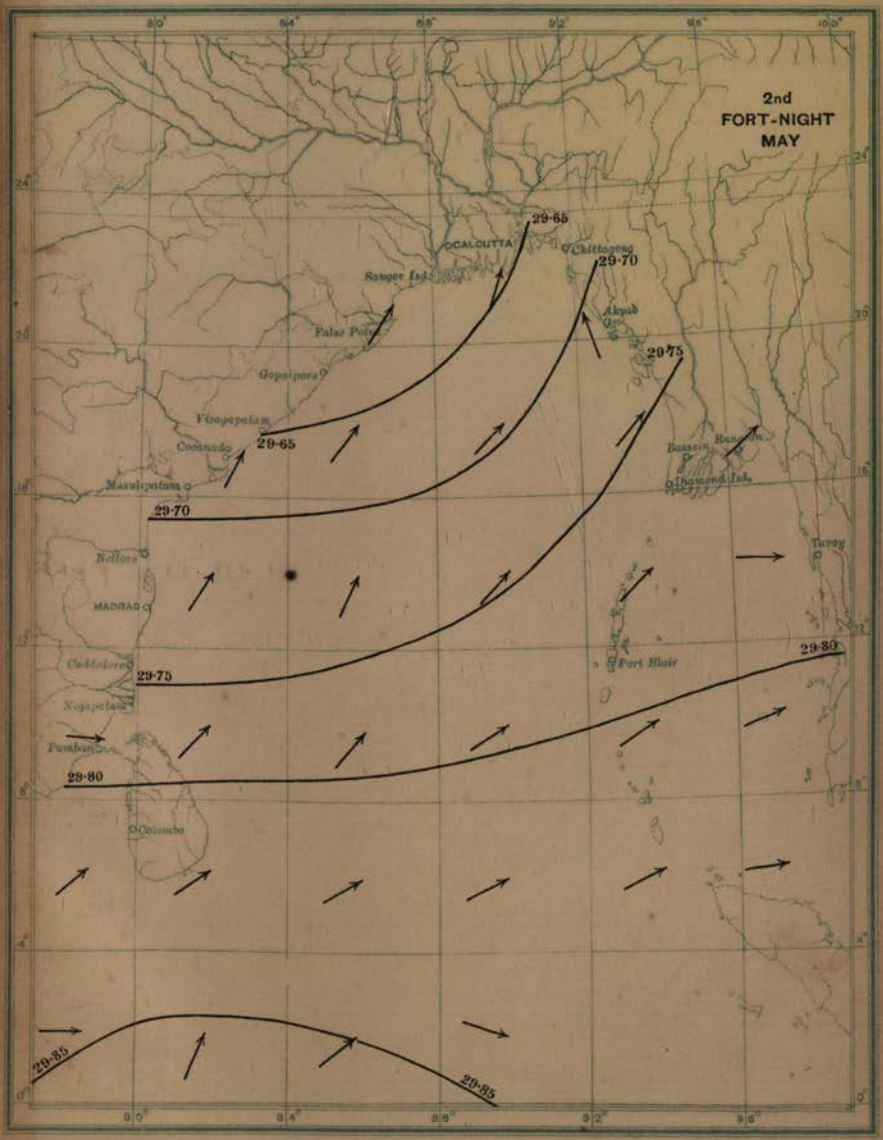
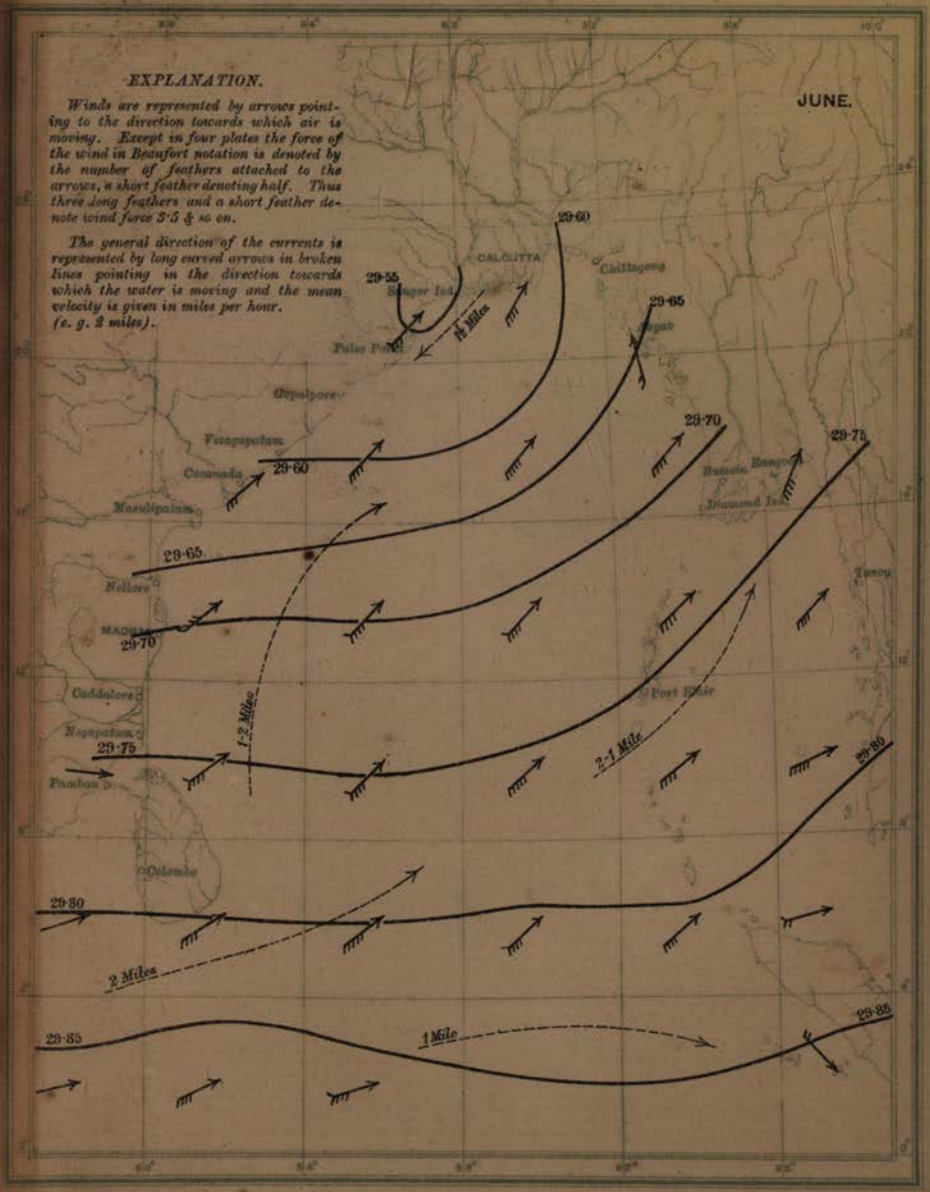
MEAN 8 A. M. BAROMETRIC HEIGHT REDUCED TO SEA-LEVEL AND CONSTANT GRAVITY AT LAT. 45°, AND MEAN DAILY WIND DIRECTION FOR SECOND FORT-NIGHT OF MAY IN BAY OF BENGAL.



MEAN 8 A. M. BAROMETRIC HEIGHT REDUCED TO SEA-LEVEL AND CONSTANT GRAVITY AT LAT. 45°, MEAN DAILY WIND DIRECTION AND MEAN CURRENT DIRECTIONS FOR MONTH OF JUNE IN BAY OF BENGAL.


EXPLANATION.
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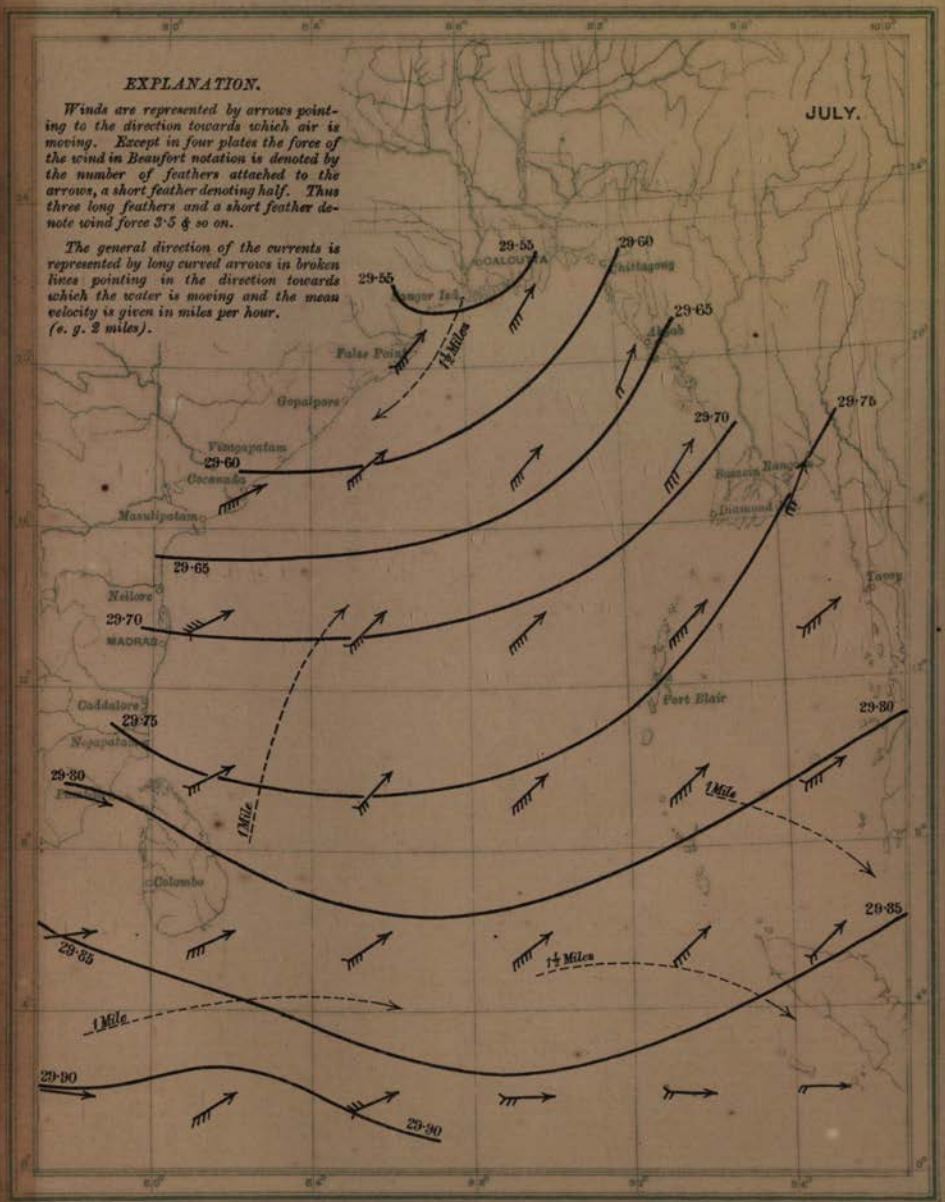
The general direction of the currents is represented by long curved arrows in broken lines pointing in the direction towards which the water is moving and the mean velocity is given in miles per hour. (e. g. 2 miles).
JUNE.
29·60
29·55
29·65
29·70
29·75
29·80
29·85
CALCUTTA
Chittagong
Pulo Penang
Negapatam
Cuddalore
Nellore
Masulipatam
Vizagapatam
Cocanada
Bassein
Diamond Is.
Port Blair
Colombo
Pondicherry
1·2 Miles
2·1 Miles
2 Miles
1 Mile

MEAN 8 A. M. BAROMETRIC HEIGHT REDUCED TO SEA-LEVEL AND CONSTANT GRAVITY AT LAT. 45°, MEAN DAILY WIND DIRECTION AND MEAN CURRENT DIRECTIONS FOR MONTH OF JULY IN BAY OF BENGAL.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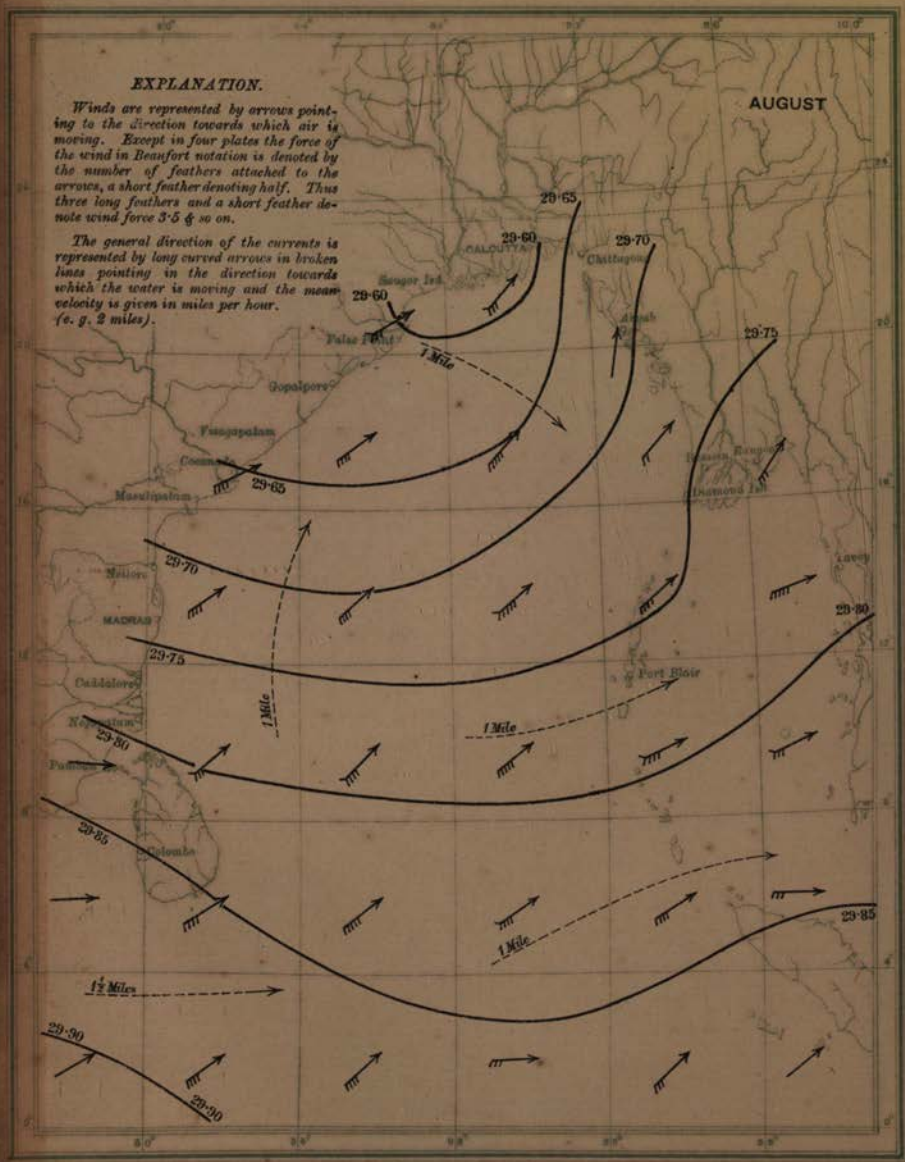
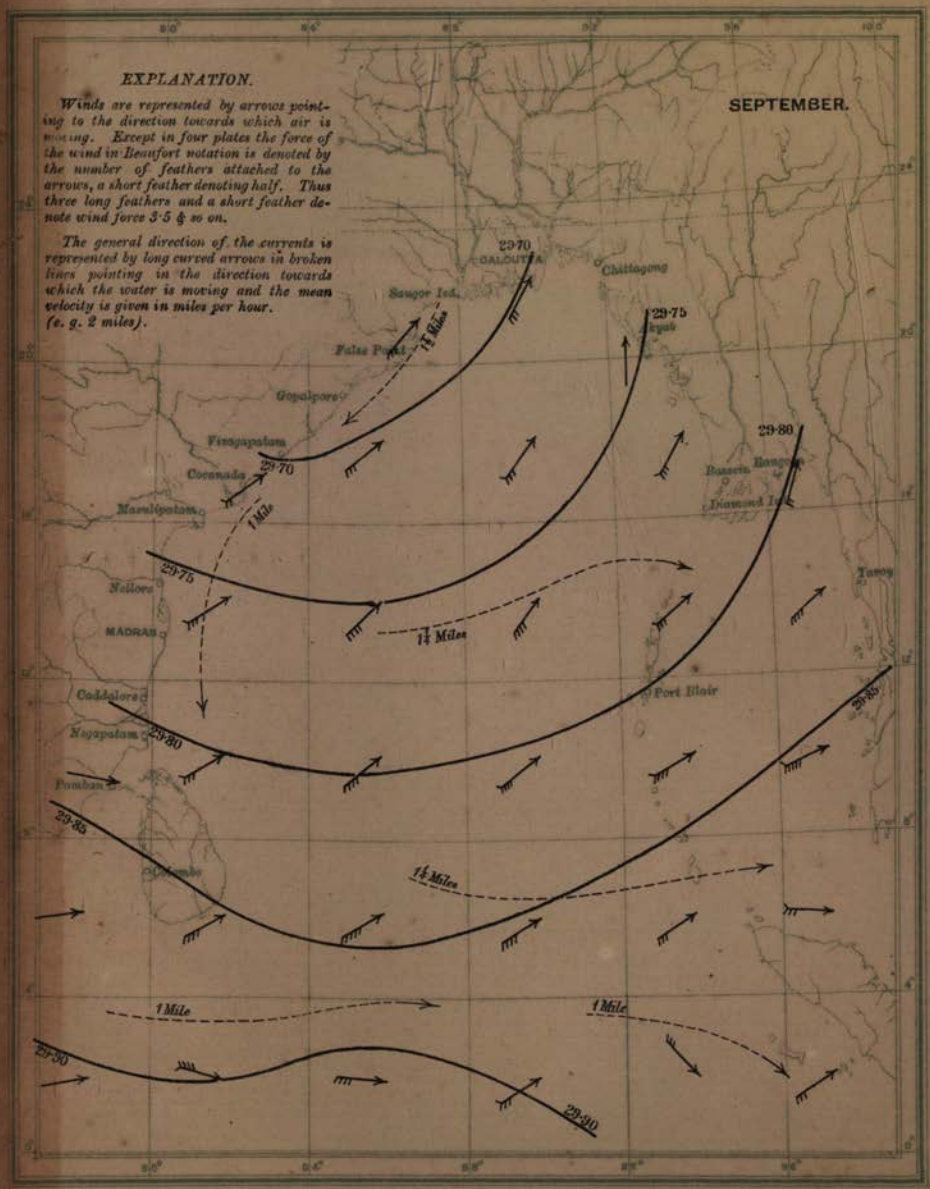
Winds are represented by arrows pointing to the direction towards which air is moving. Except in four plates the force of the wind in Beaufort notation is denoted by the number of feathers attached to the arrows, a short feather denoting half. Thus three long feathers and a short feather denote wind force 3·5 & so on.
The general direction of the currents is represented by long curved arrows in broken lines pointing in the direction towards which the water is moving and the mean velocity is given in miles per hour. (e. g. 2 miles).
JULY.
29·55
29·60
29·65
29·70
29·75
29·80
29·85
29·90
1½ Miles
1 Mile
False Point
Gopalpore
Vizagapatam
Cocanada
Masulipatam
Nellore
MADRAS
Port Blair
Colombo
Chittagong
Akyab
Bassein
Rangoon
Diamond
Tavoy

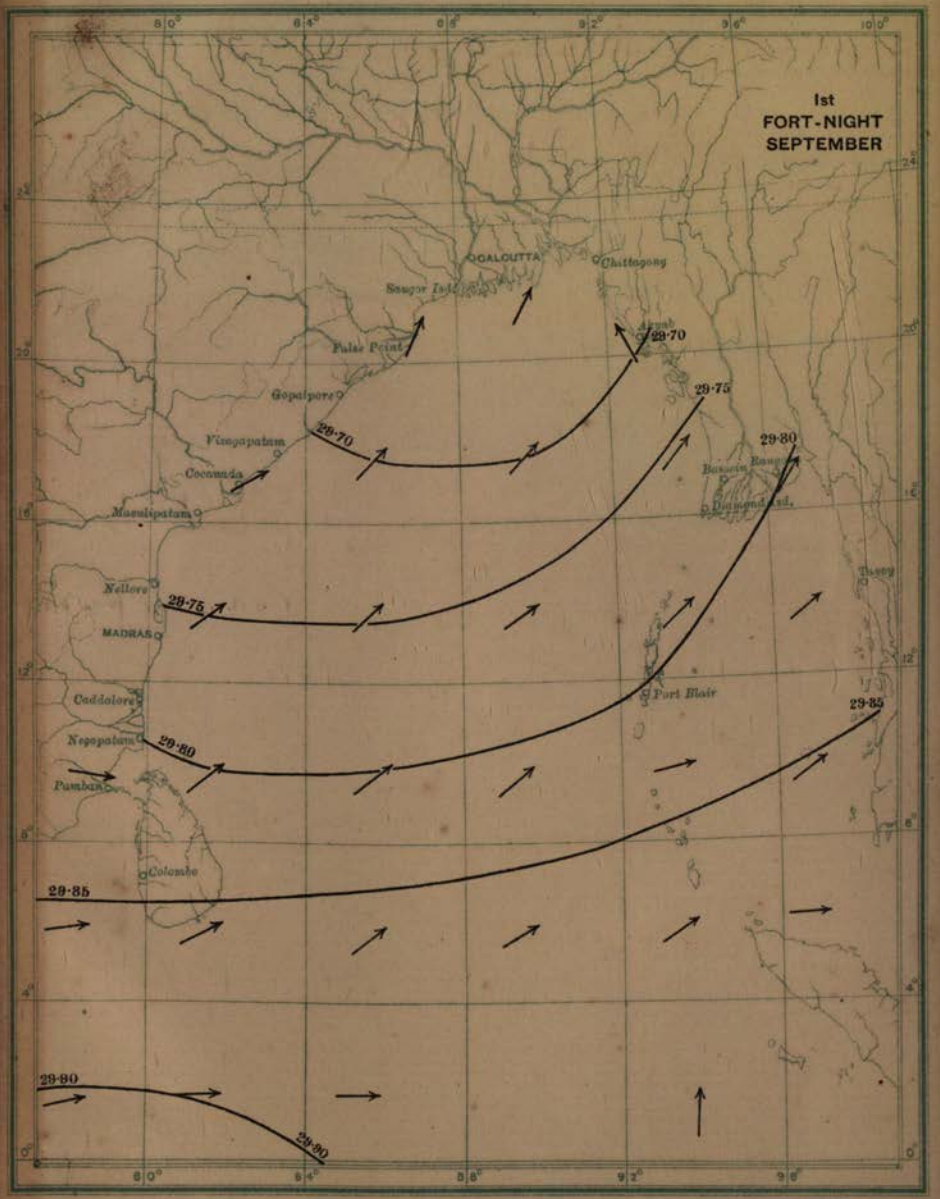
MEAN 8 A. M. BAROMETRIC HEIGHT REDUCED TO SEA-LEVEL AND CONSTANT GRAVITY AT LAT. 45°, MEAN DAILY WIND DIRECTION AND MEAN CURRENT DIRECTIONS FOR MONTH OF AUGUST IN BAY OF BENGAL.



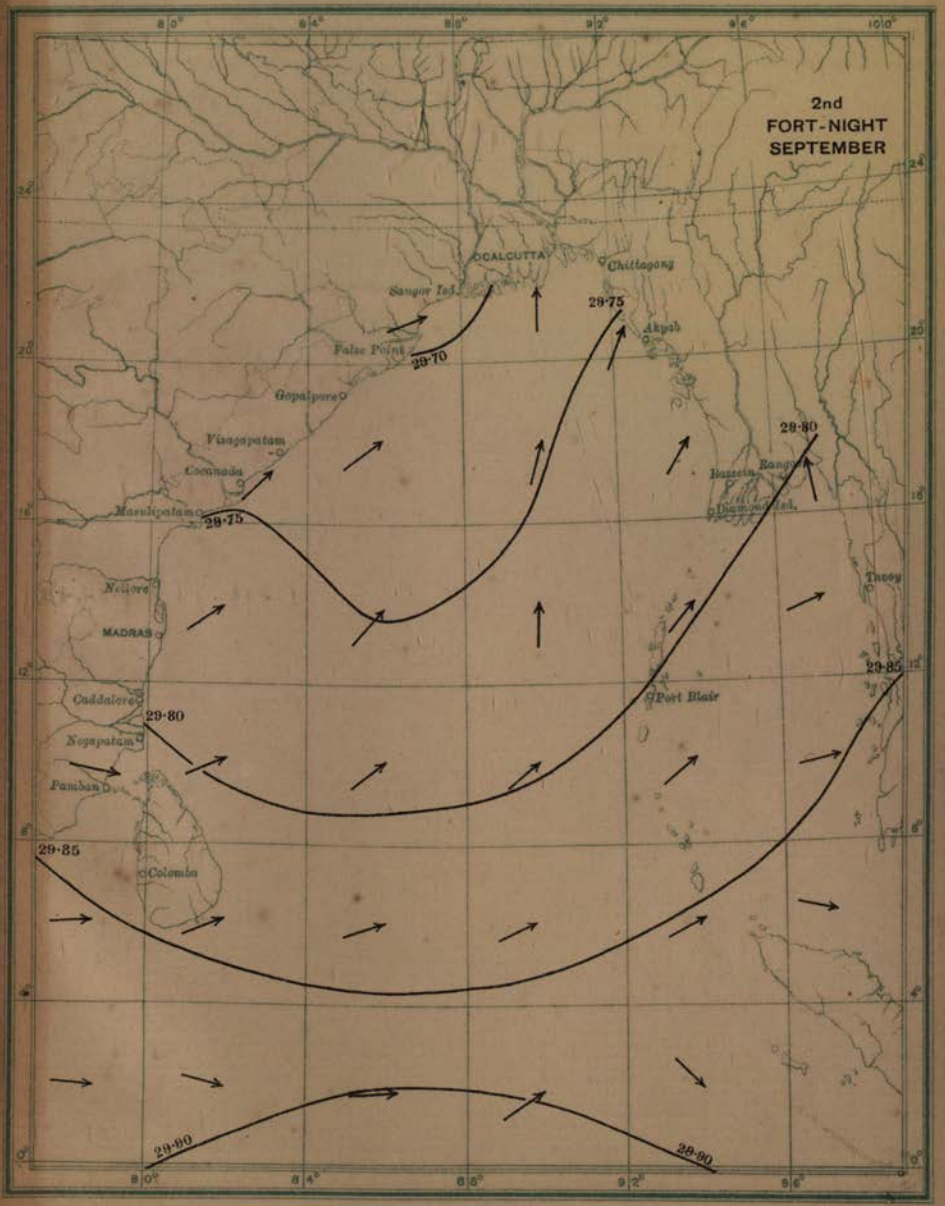
MEAN 8 A. M. BAROMETRIC HEIGHT REDUCED TO SEA-LEVEL AND CONSTANT GRAVITY AT LAT. 45°, MEAN DAILY WIND DIRECTION AND MEAN CURRENT DIRECTIONS FOR MONTH OF SEPTEMBER IN BAY OF BENGAL.



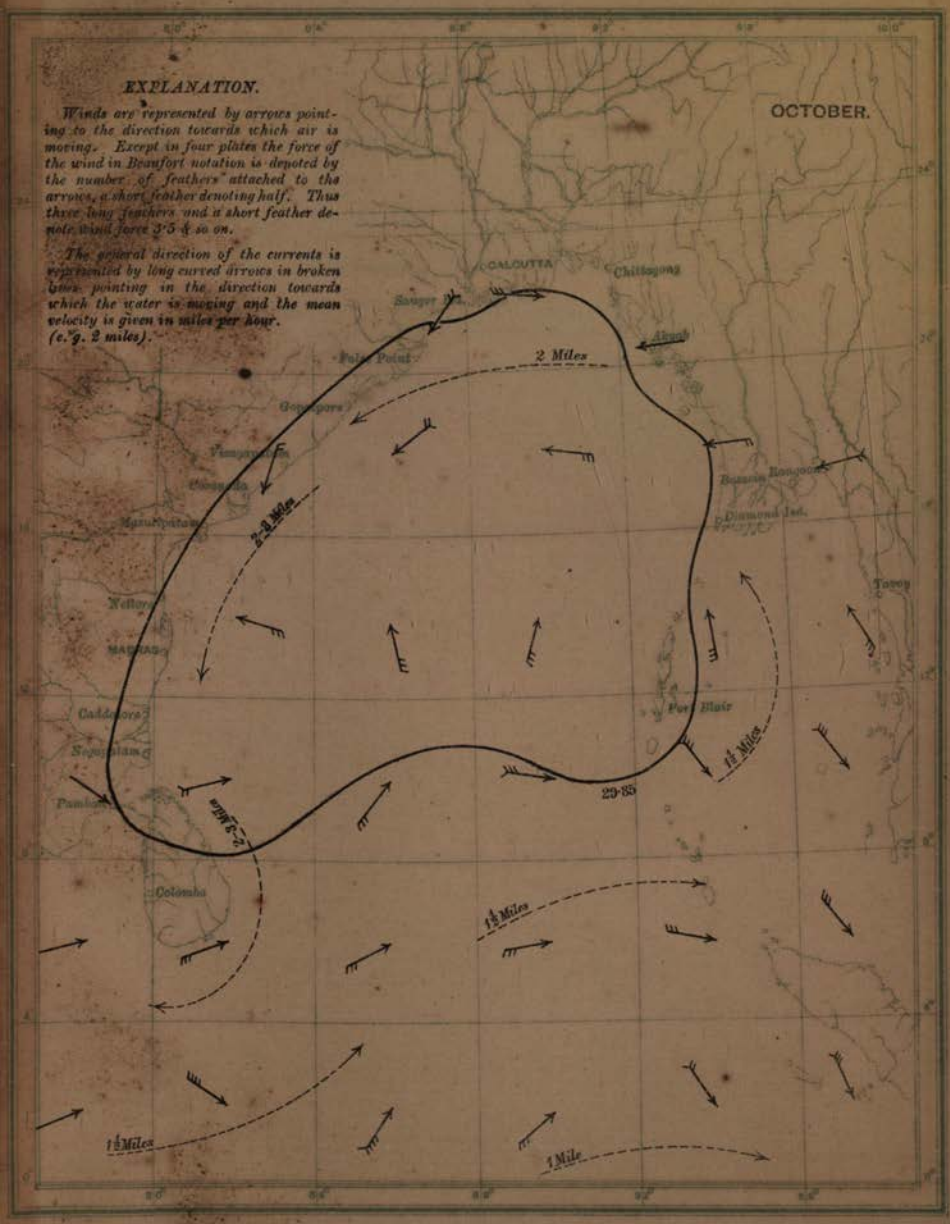
MEAN 8 A. M. BAROMETRIC HEIGHT REDUCED TO SEA-LEVEL AND CONSTANT GRAVITY AT LAT. 45°, AND MEAN DAILY WIND DIRECTION FOR FIRST FORT-NIGHT OF SEPTEMBER IN BAY OF BENGAL.



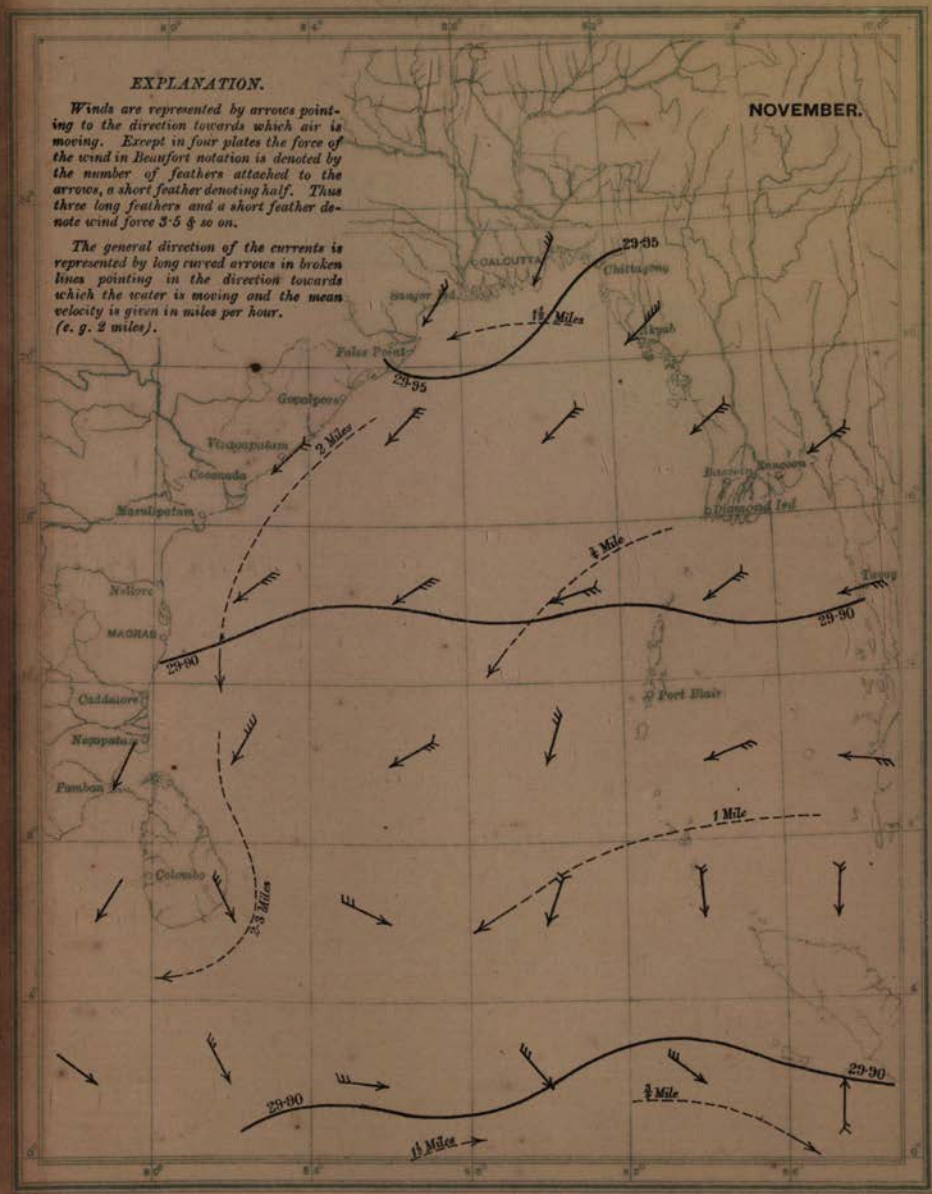
MEAN 8 A. M. BAROMETRIC HEIGHT REDUCED TO SEA-LEVEL AND CONSTANT GRAVITY AT LAT. 45°, AND MEAN DAILY WIND DIRECTION FOR SECOND FORT-NIGHT OF SEPTEMBER IN BAY OF BENGAL.



MEAN 8 A. M. BAROMETRIC HEIGHT REDUCED TO SEA-LEVEL AND CONSTANT GRAVITY AT LAT. 45°, MEAN DAILY WIND DIRECTION AND MEAN CURRENT DIRECTIONS FOR MONTH OF OCTOBER IN BAY OF BENGAL.


EXPLANATION.
Winds are represented by arrows pointing to the direction towards which air is moving. Except in four plates the force of the wind in Beaufort notation is depoted by the number of feathers attached to the arrows, a short feather denoting half. Thus three long feathers and a short feather denote wind force 3·5 & so on.
The general direction of the currents is represented by long curved arrows in broken lines pointing in the direction towards which the water is moving and the mean velocity is given in miles per hour. (e.g. 2 miles).
OCTOBER.
CALCUTTA
Chittagong
2 Miles
2-3 Miles
Port Blair
1½ Miles
29·85
2-3 Miles
Colombo
1½ Miles
1½ Miles
1 Mile

MEAN 8 A. M. BAROMETRIC HEIGHT REDUCED TO SEA-LEVEL AND CONSTANT GRAVITY AT LAT. 45°, MEAN DAILY WIND DIRECTION AND MEAN CURRENT DIRECTIONS FOR MONTH OF NOVEMBER IN BAY OF BENGAL.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The general direction of the currents is represented by long curved arrows in broken lines pointing in the direction towards which the water is moving and the mean velocity is given in miles per hour. (e. g. 2 miles).
NOVEMBER.
CALCUTTA
Chittagong
Saugor I.
Akyab
Pulo Point
Gopalpore
Vizagapatam
Cocanada
Masulipatam
Nellore
MADRAS
Cuddalore
Negapatam
Pamban
Colombo
Port Blair
Diamond Isd.
Tavoy
29·85
29·95
29·90
1½ Miles
2 Miles
½ Mile
1 Mile
2·3 Miles
¾ Mile
1½ Miles

MEAN 8 A. M. BAROMETRIC HEIGHT REDUCED TO SEA-LEVEL AND CONSTANT GRAVITY AT LAT. 45°, MEAN DAILY WIND DIRECTION AND MEAN CURRENT DIRECTIONS FOR MONTH OF DECEMBER IN BAY OF BENGAL.

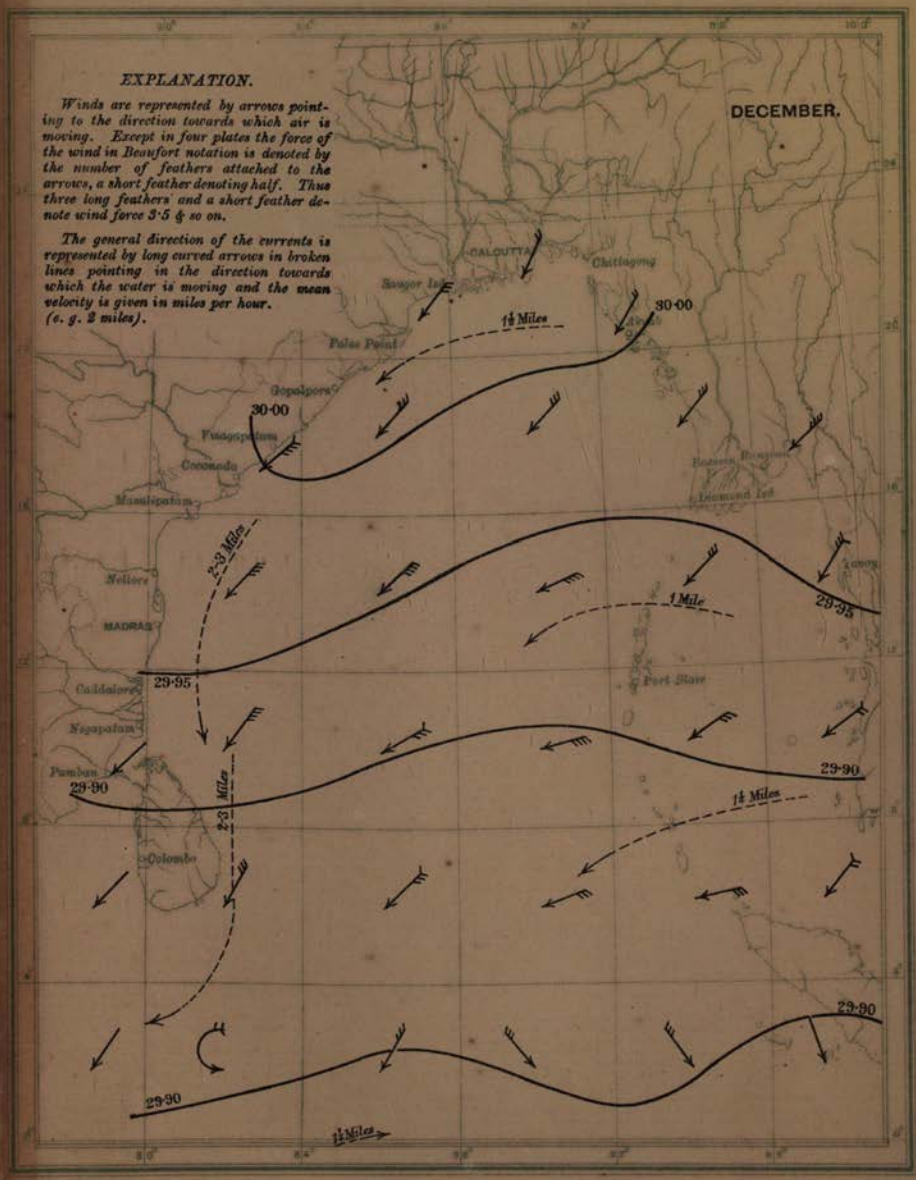

EXPLANATION.
Winds are represented by arrows pointing to the direction towards which air is moving. Except in four plates the force of the wind in Beaufort notation is denoted by the number of feathers attached to the arrows, a short feather denoting half. Thus three long feathers and a short feather denote wind force 3·5 & so on.
The general direction of the currents is represented by long curved arrows in broken lines pointing in the direction towards which the water is moving and the mean velocity is given in miles per hour. (e. g. 2 miles).
DECEMBER.
CALCUTTA
Chittagong
Saugor Is.
False Point
Gopalpore
Vizagapatam
Coconada
Masulipatam
Nellore
MADRAS
Cuddalore
Negapatam
Pamban
Colombo
Port Blair
Diamond Isl
30·00
29·95
29·90
1½ Miles
2·3 Miles
1 Mile

CHART GIVING NUMBER OF SQUALLS REPORTED IN EACH SECTION OF THE BAY DURING THE PERIOD 1893 TO 1898.

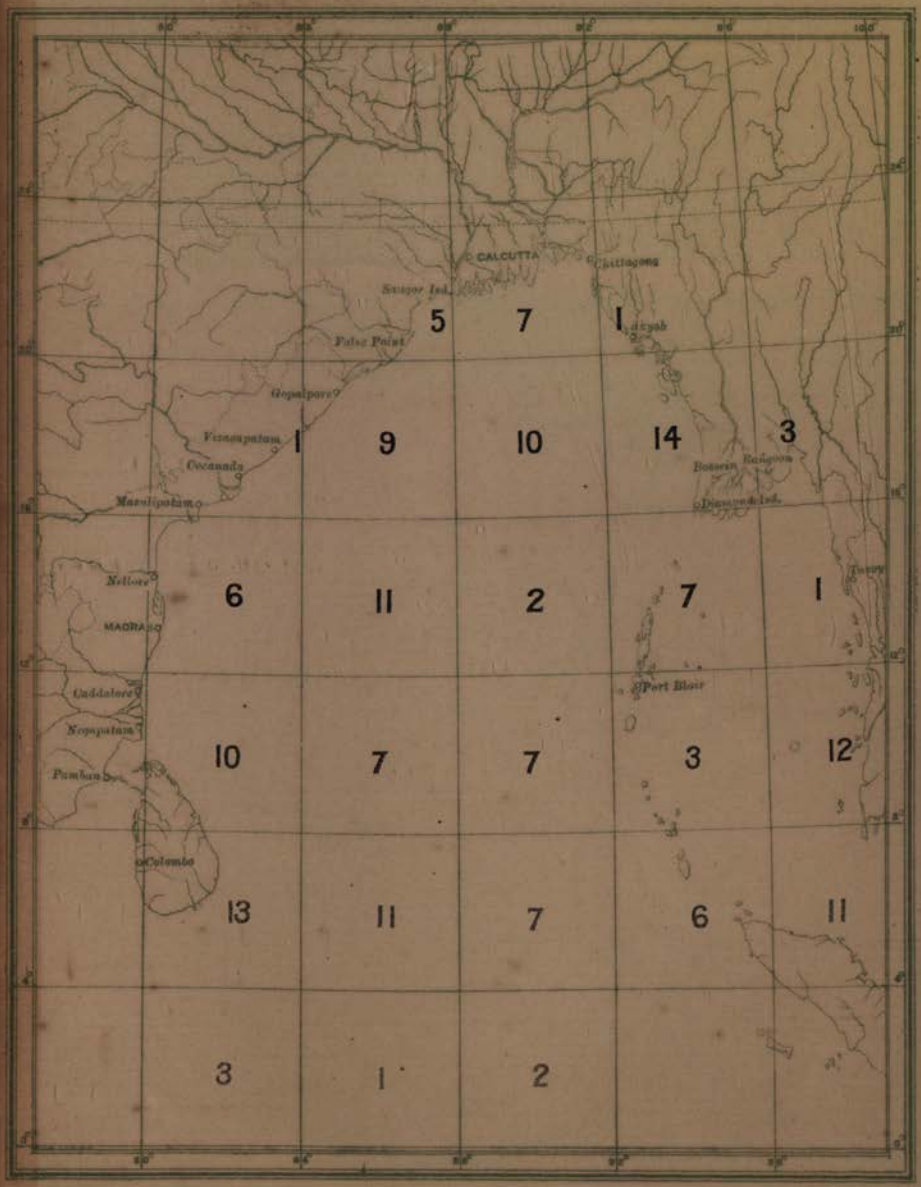
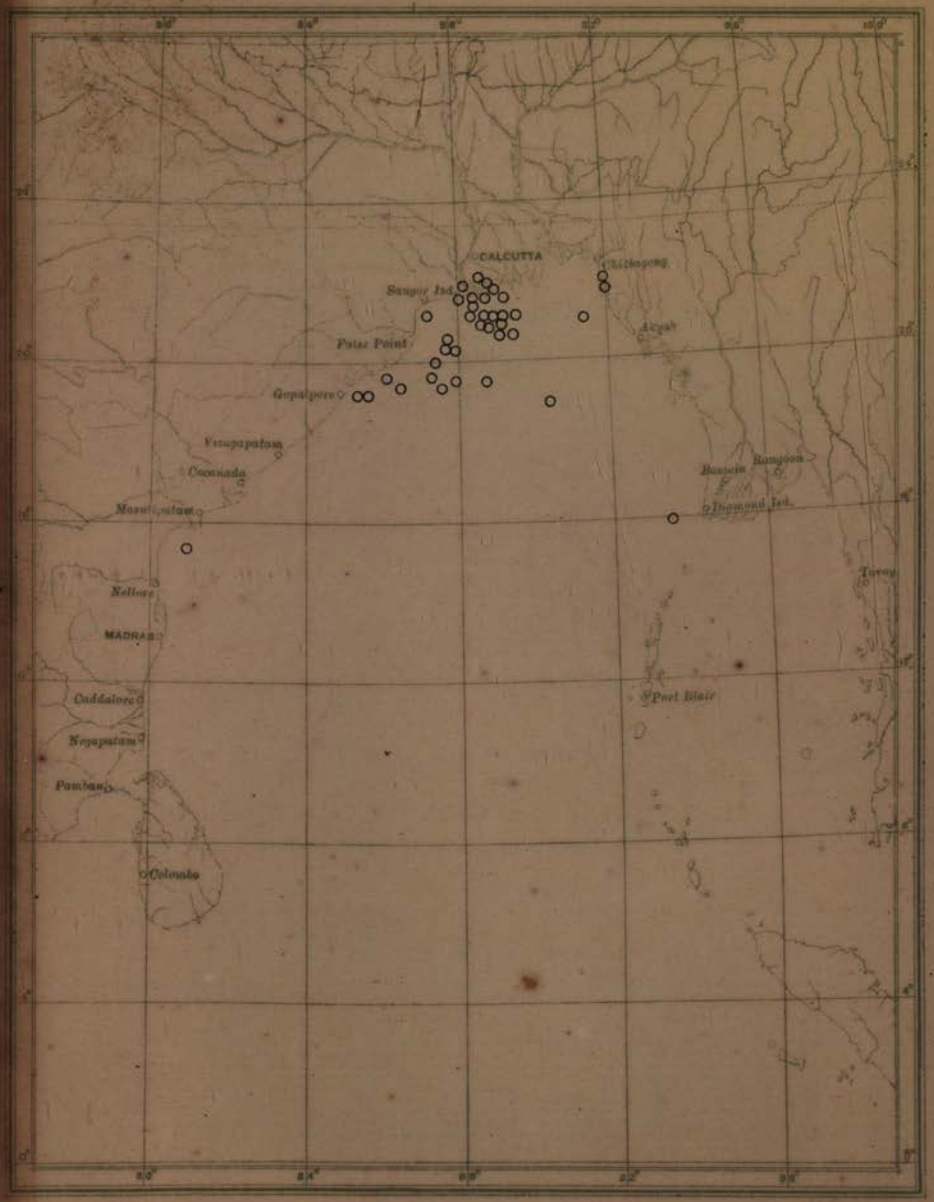
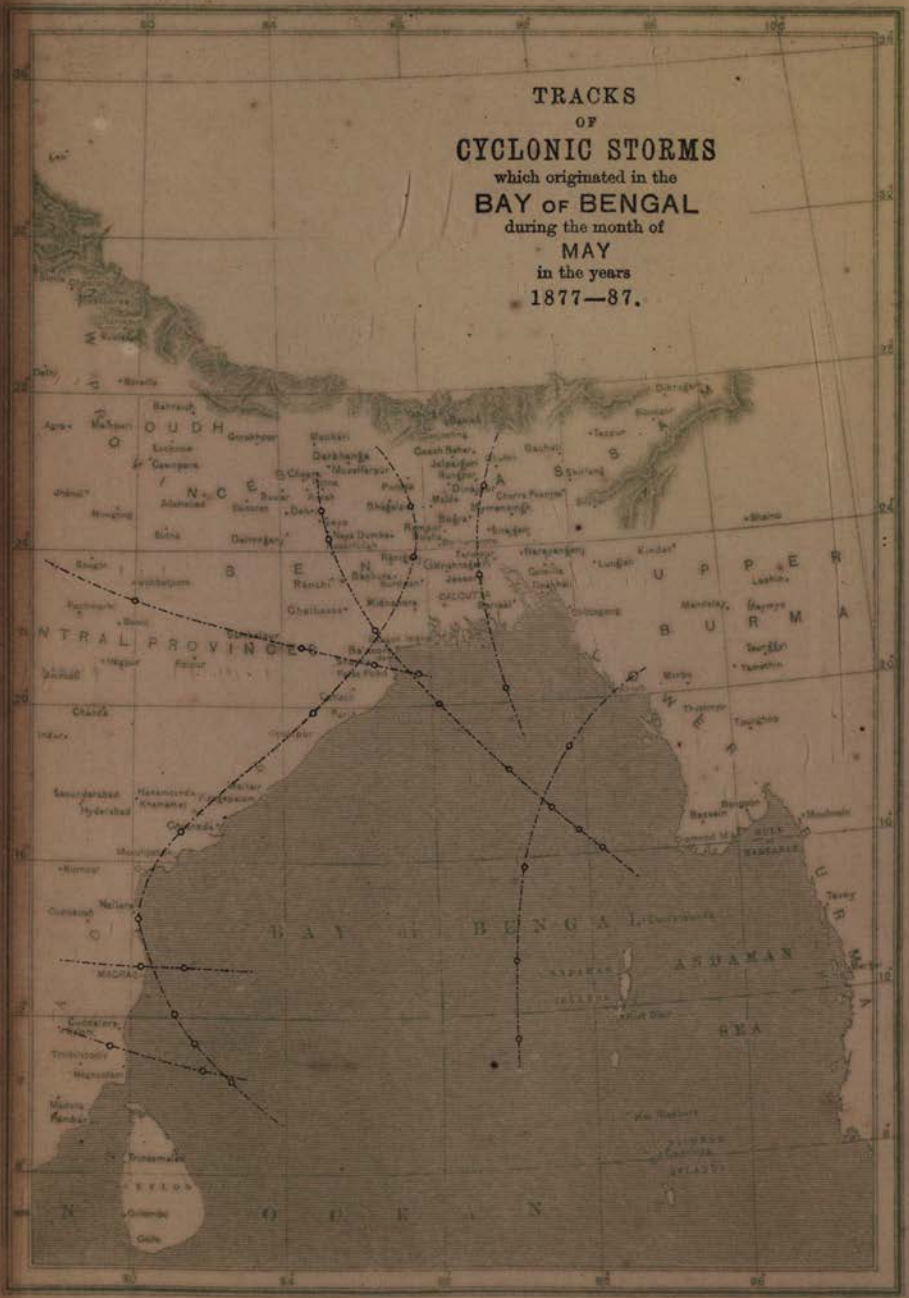
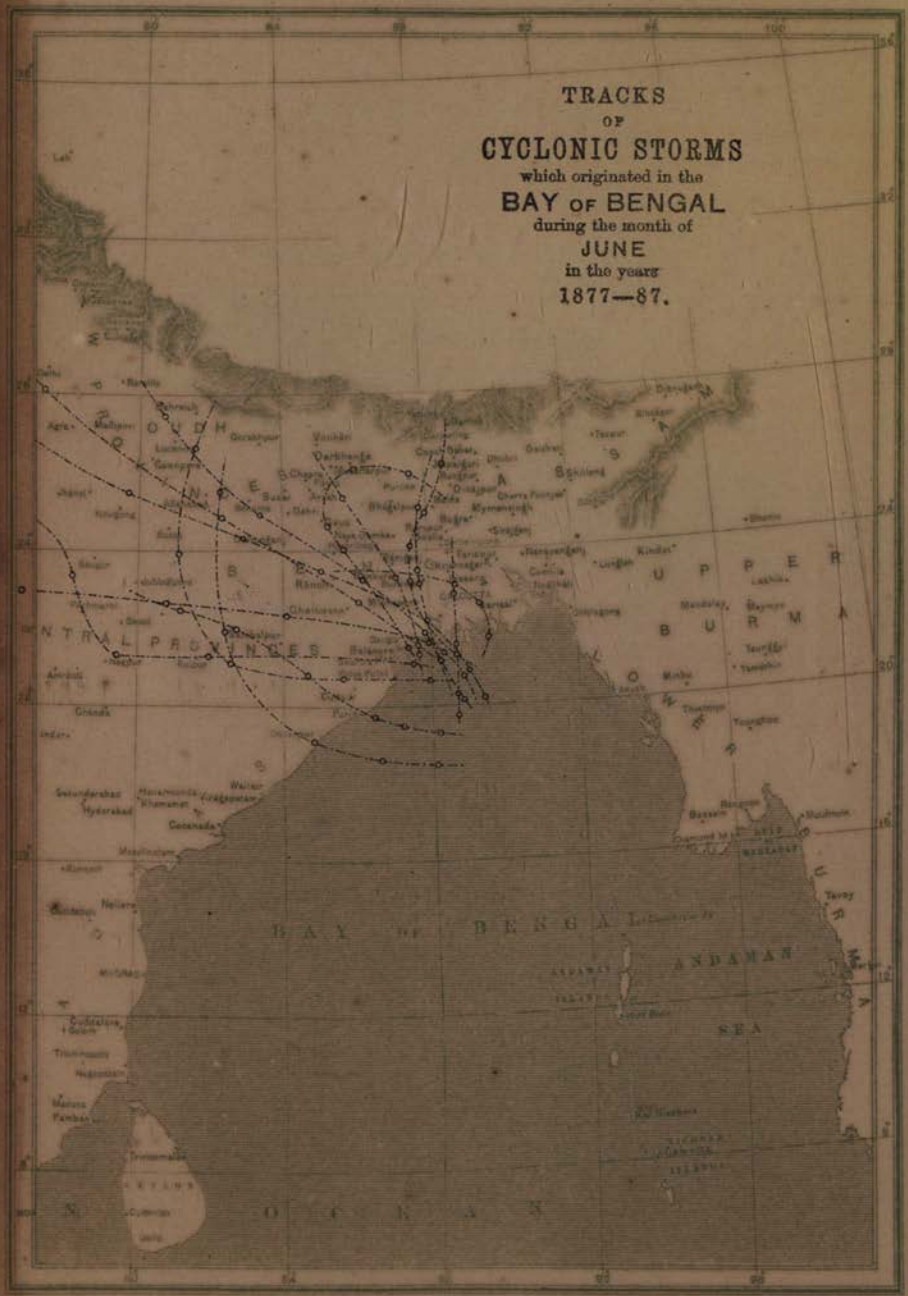
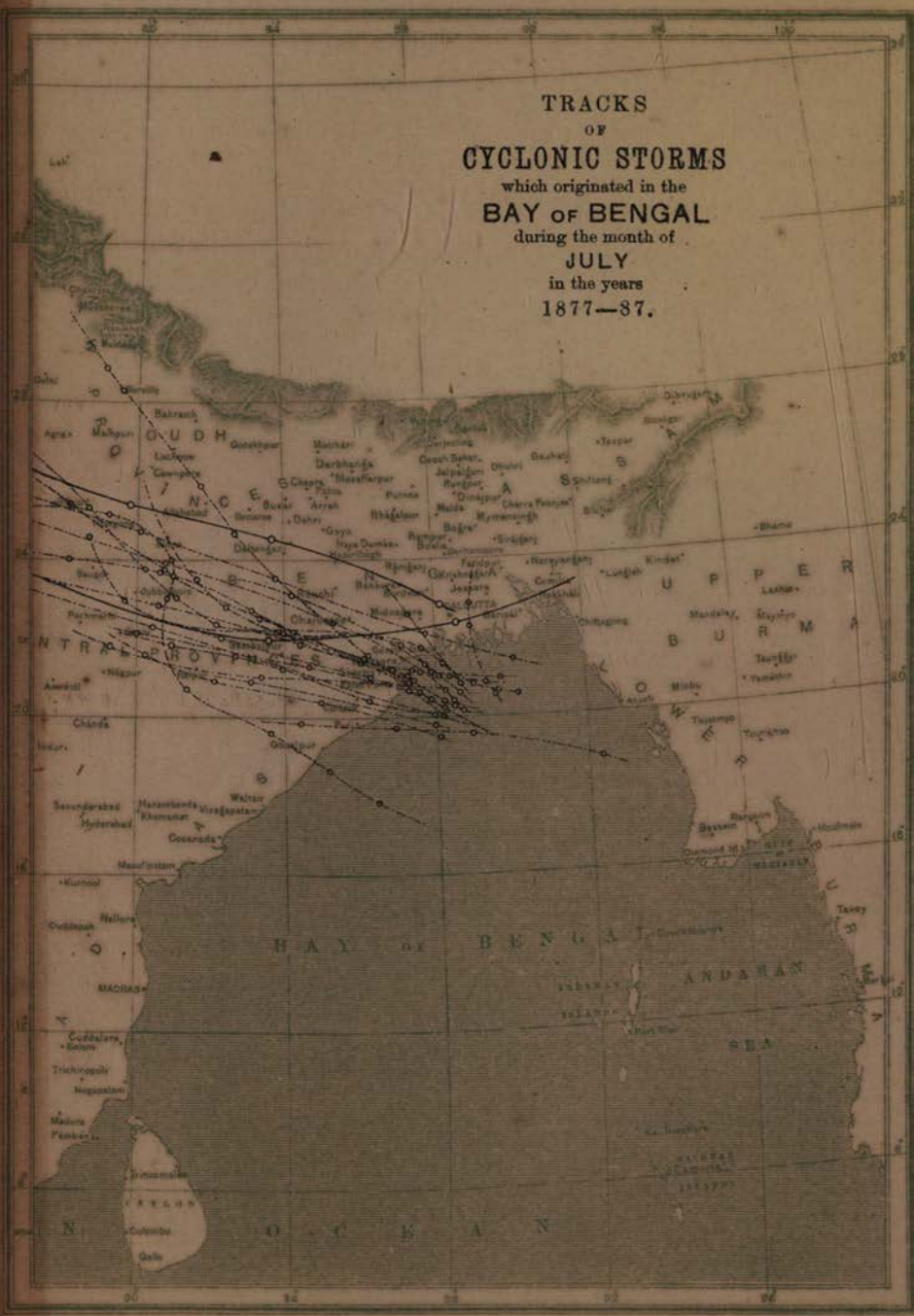


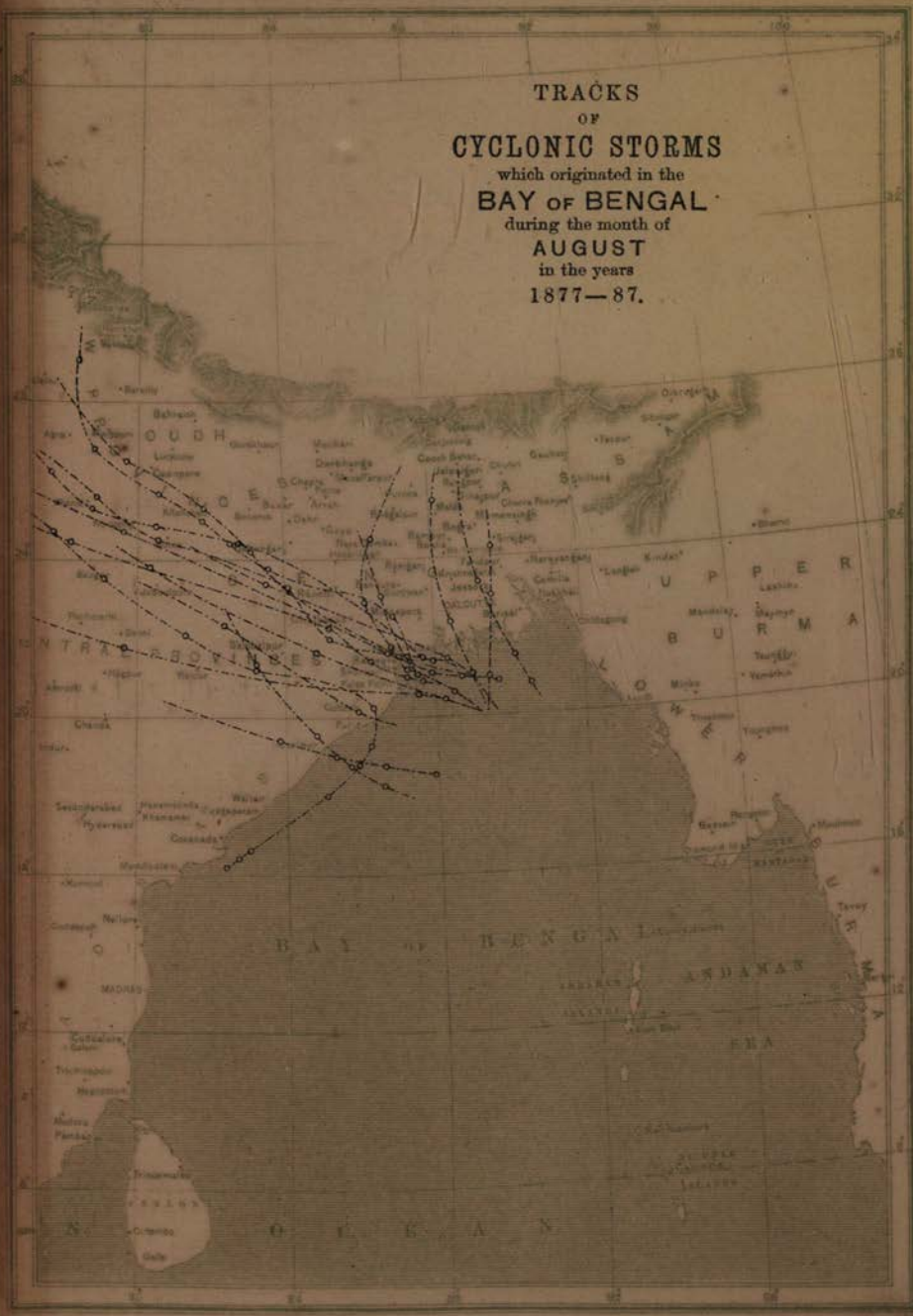
CHART SHOWING SPACE DISTRIBUTION OF NORWESTERS IN THE BAY DURING THE PERIOD 1883 TO 1898.

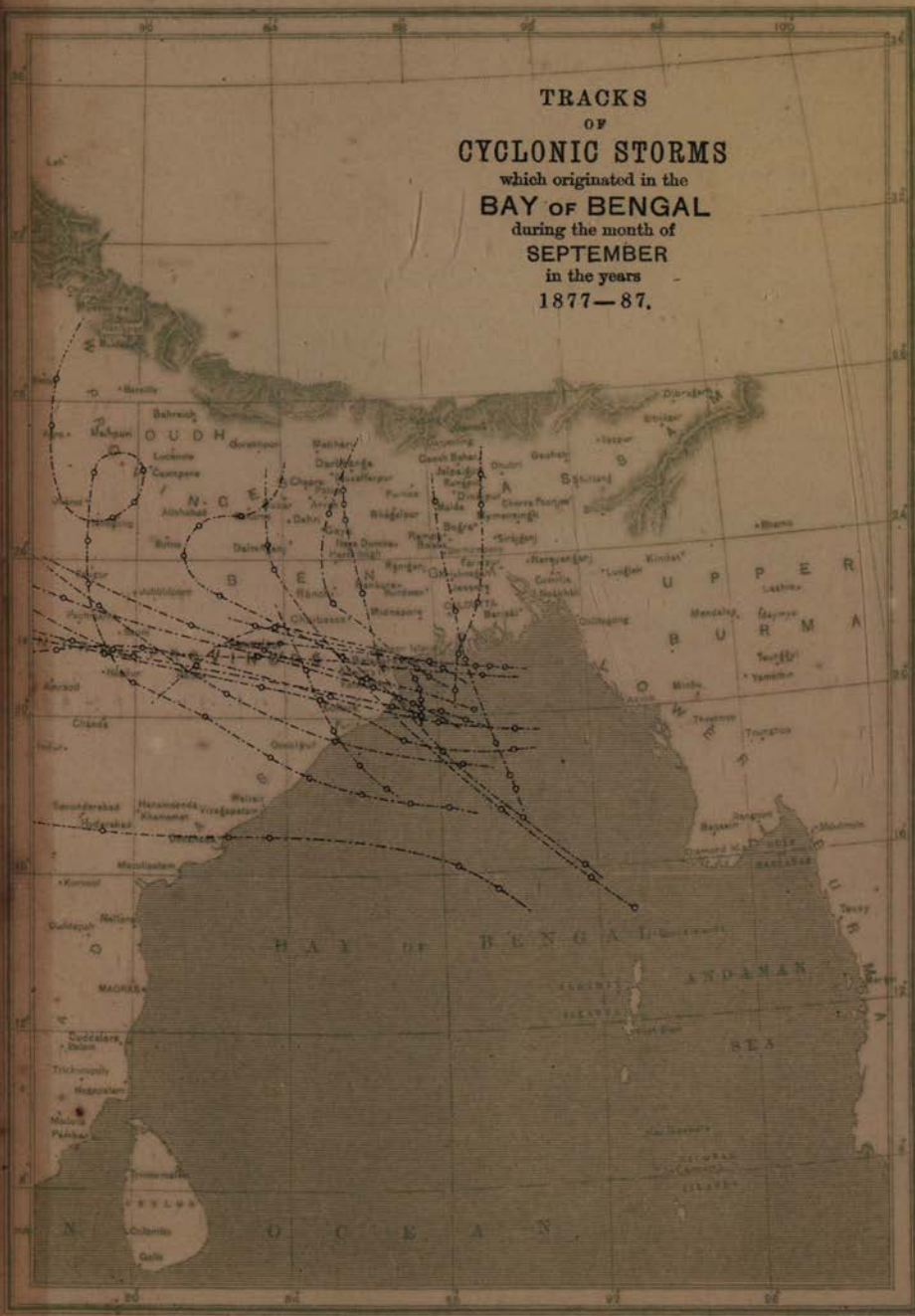


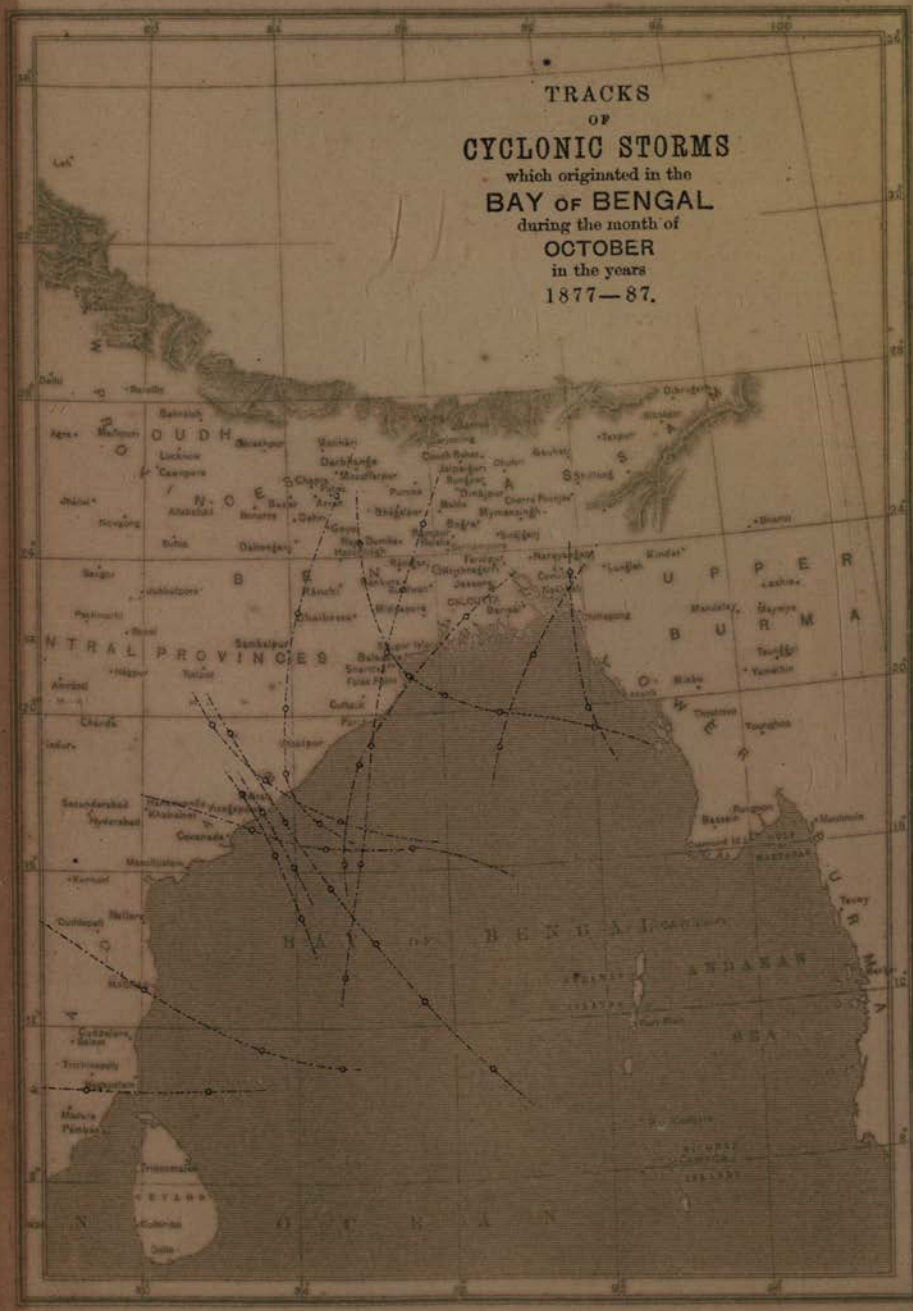

TRACKS
OF
CYCLONIC STORMS
which originated in the
BAY OF BENGAL
during the month of
MAY
in the years
1877—87.
BAY OF BENGAL
ANDAMAN
SEA
OUDH
CENTRAL PROVINCES
UPPER BURMA
MADRAS
CEYLON
INDIAN OCEAN


TRACKS
OF
CYCLONIC STORMS
which originated in the
BAY OF BENGAL
during the month of
JUNE
in the years
1877—87.
BAY OF BENGAL
ANDAMAN
SEA
OCEAN


TRACKS
OF
CYCLONIC STORMS
which originated in the
BAY OF BENGAL
during the month of
JULY
in the years
1877—87.
BAY OF BENGAL
ANDAMAN SEA
INDIAN OCEAN
MADRAS
CEYLON
BURMA


TRACKS
OF
CYCLONIC STORMS
which originated in the
BAY OF BENGAL
during the month of
AUGUST
in the years
1877—87.
BAY OF BENGAL
ANDAMAN SEA
INDIAN OCEAN
UPPER BURMA
LOWER BURMA
CENTRAL PROVINCES
MADRAS


TRACKS
OF
CYCLONIC STORMS
which originated in the
BAY OF BENGAL
during the month of
SEPTEMBER
in the years
1877—87.
OUDH
BENGAL
UPPER
BURMA
HAY OF BENGAL
ANDAMAN
SEA
OCEAN


TRACKS
OF
CYCLONIC STORMS
which originated in the
BAY OF BENGAL
during the month of
OCTOBER
in the years
1877—87.
BAY OF BENGAL
ANDAMAN SEA
INDIAN OCEAN
CENTRAL PROVINCES
UPPER BURMA
LOWER BURMA
CEYLON

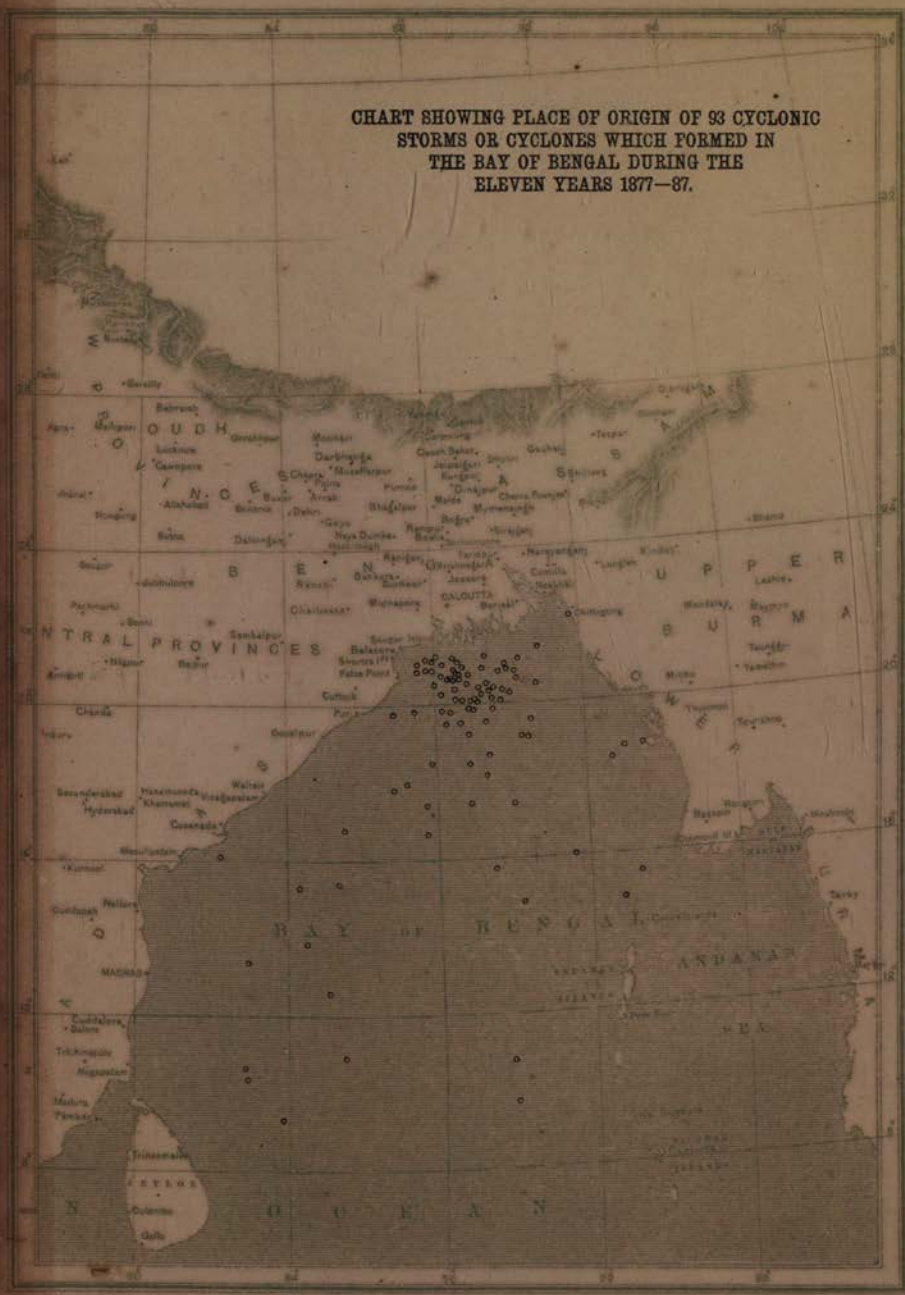
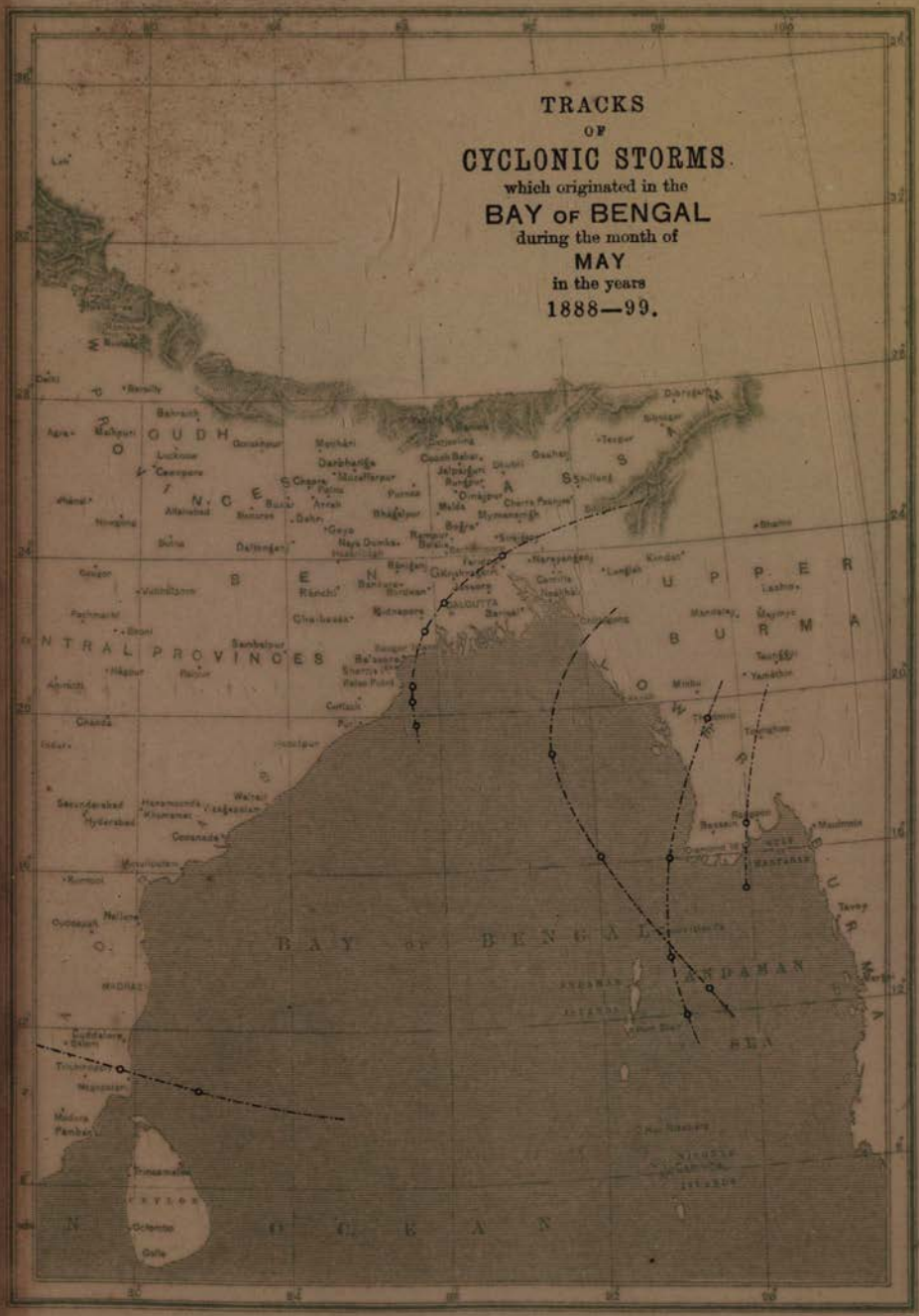
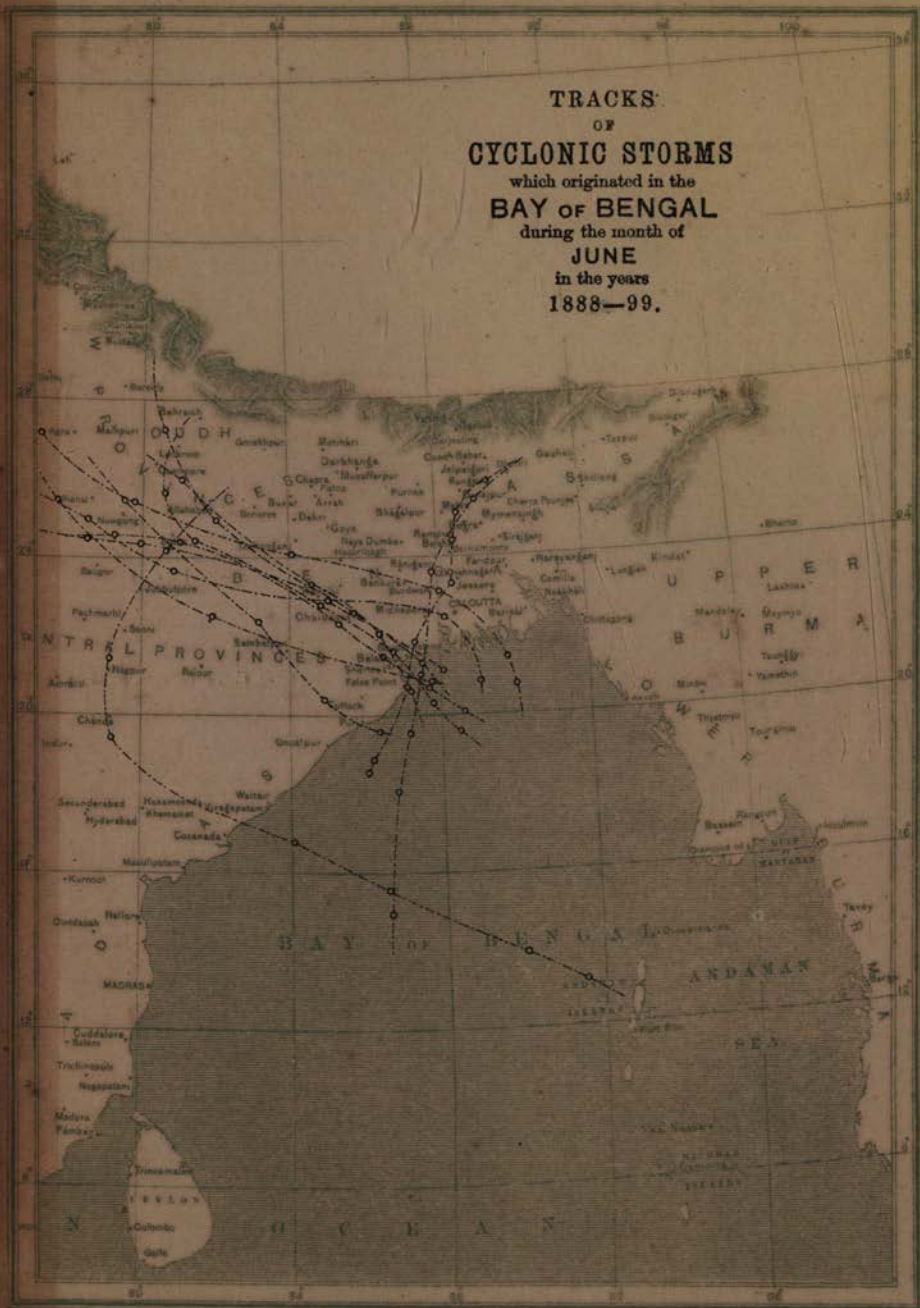
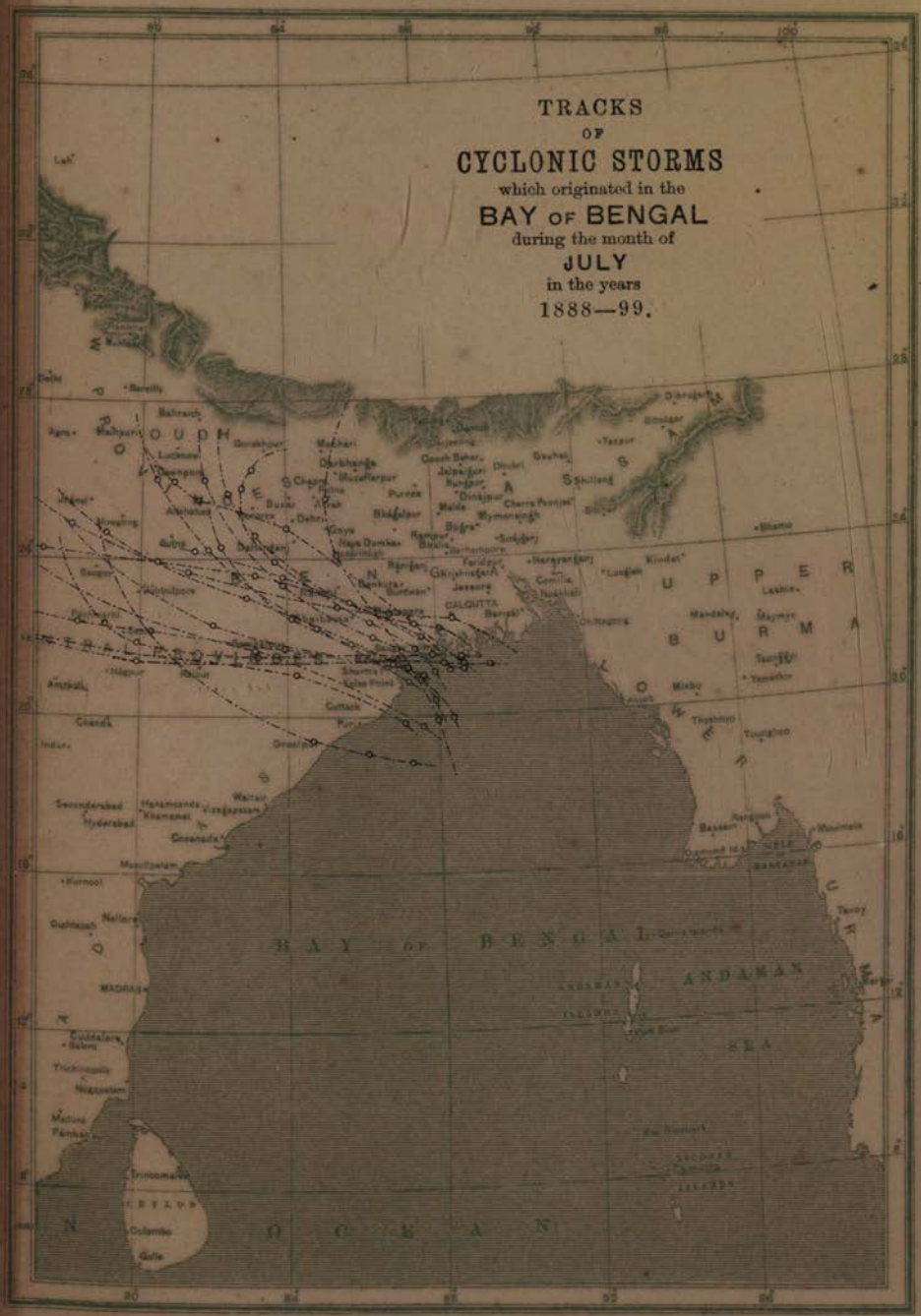
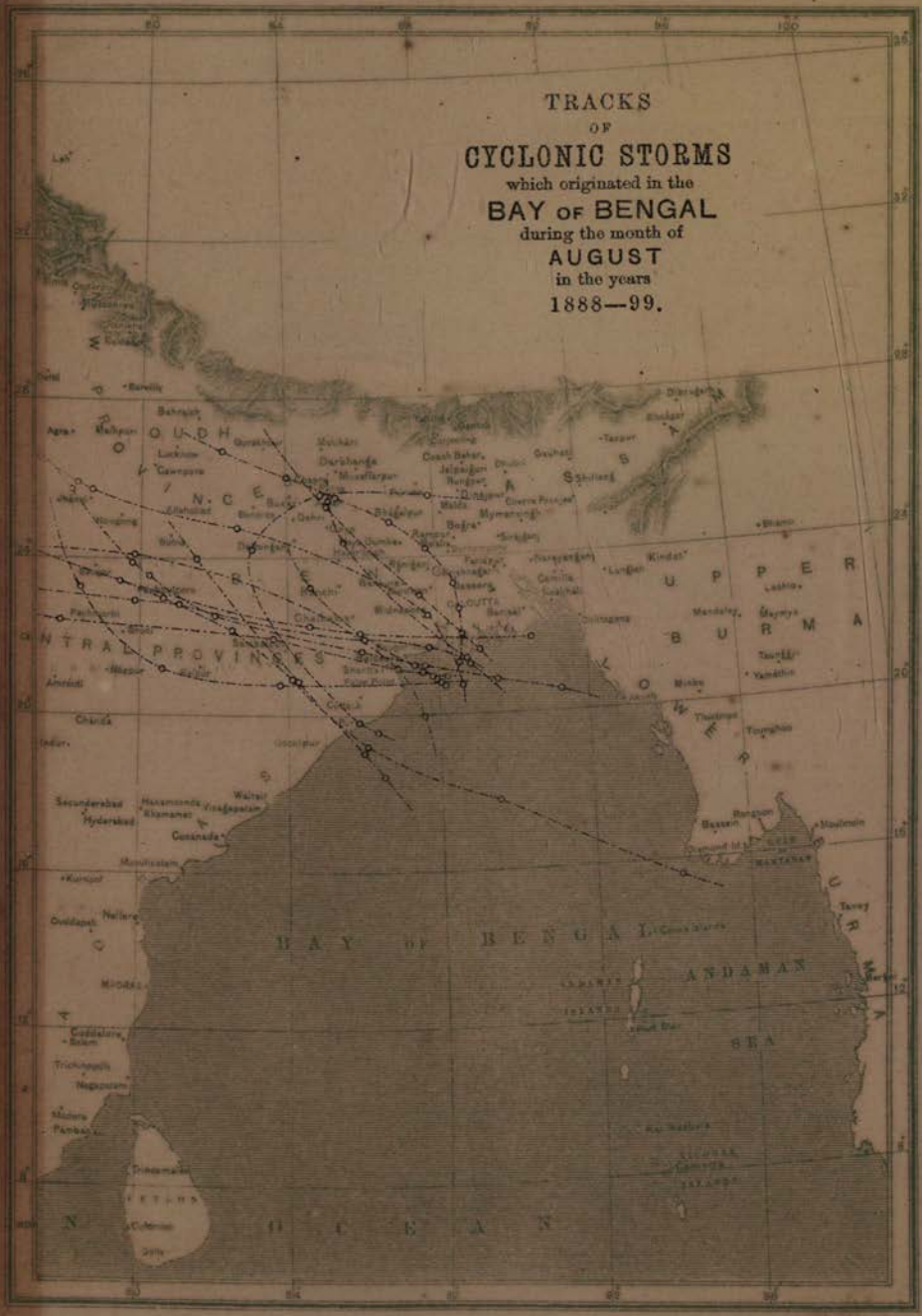


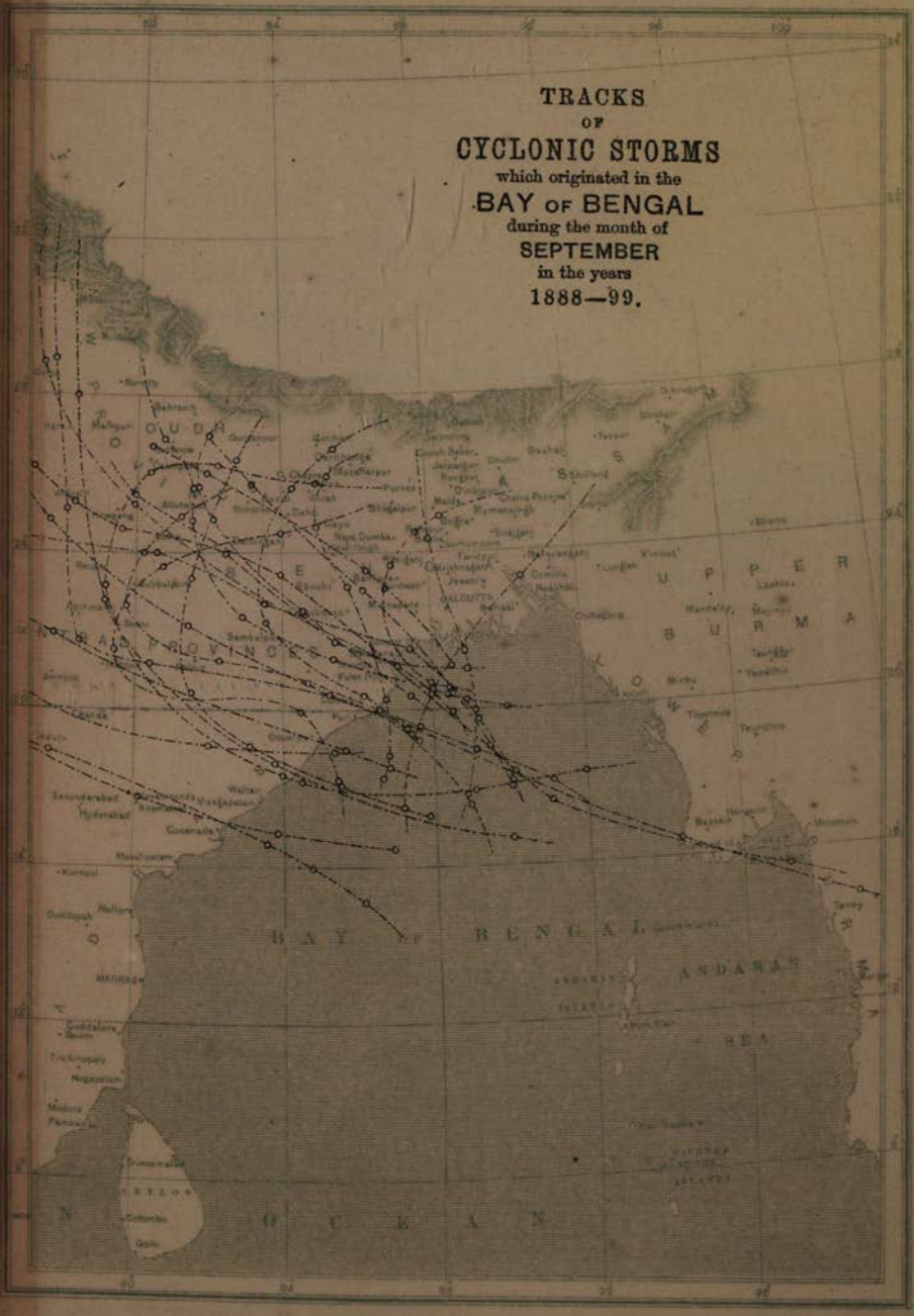
CHART SHOWING PLACE OF ORIGIN OF 93 CYCLONIC STORMS OR CYCLONES WHICH FORMED IN THE BAY OF BENGAL DURING THE ELEVEN YEARS 1877—87.
BAY OF BENGAL
ANDAMAN SEA
INDIAN OCEAN
CALCUTTA
MADRAS
CENTRAL PROVINCES
UPPER BURMA
LOWER BURMA
CEYLON

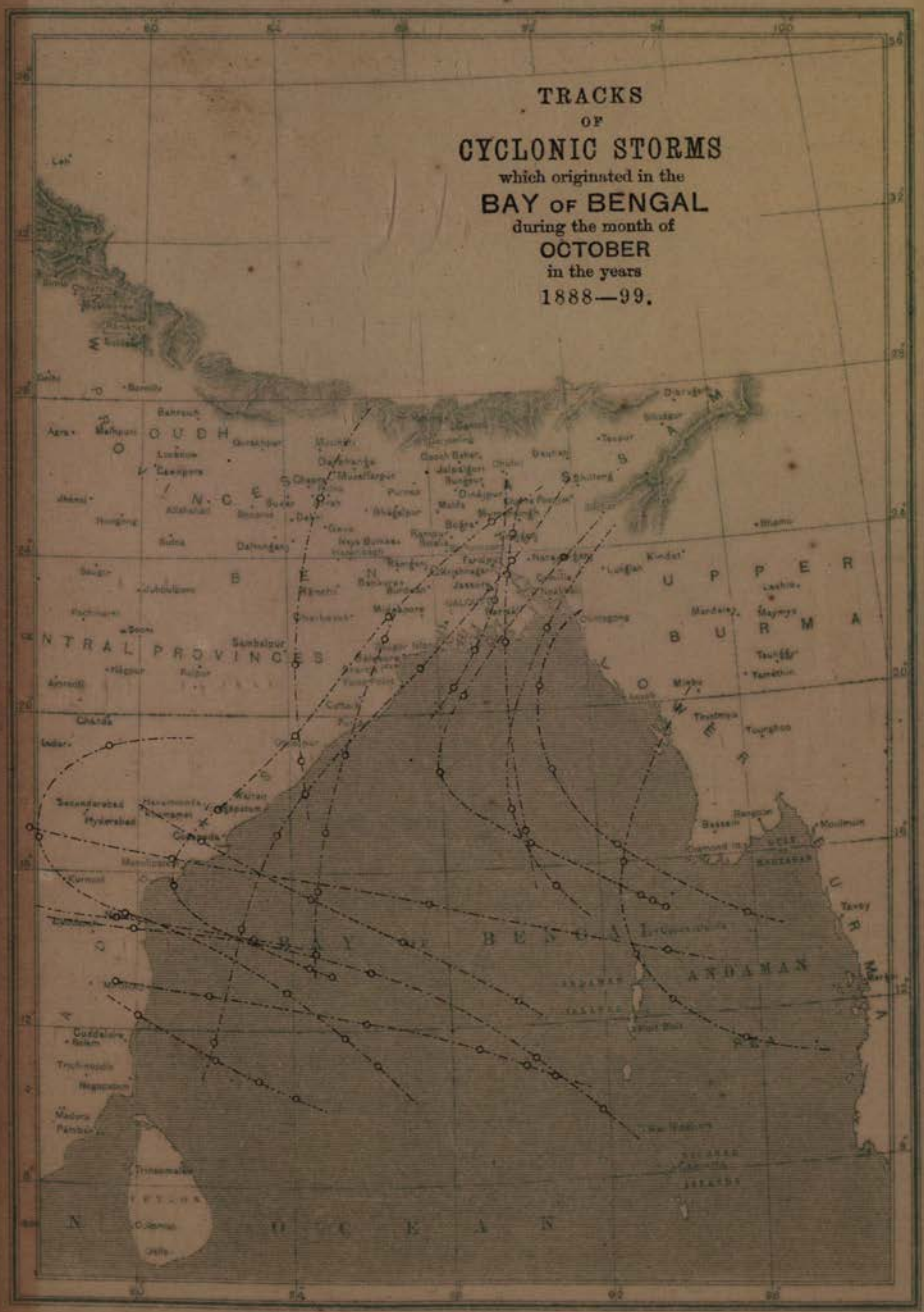

TRACKS
OF
CYCLONIC STORMS
which originated in the
BAY OF BENGAL
during the month of
MAY
in the years
1888—99.
BAY OF BENGAL
ANDAMAN
SEA
INDIAN OCEAN
CEYLON
MADRAS
BURMA
OUDH
BENGAL
CENTRAL PROVINCES

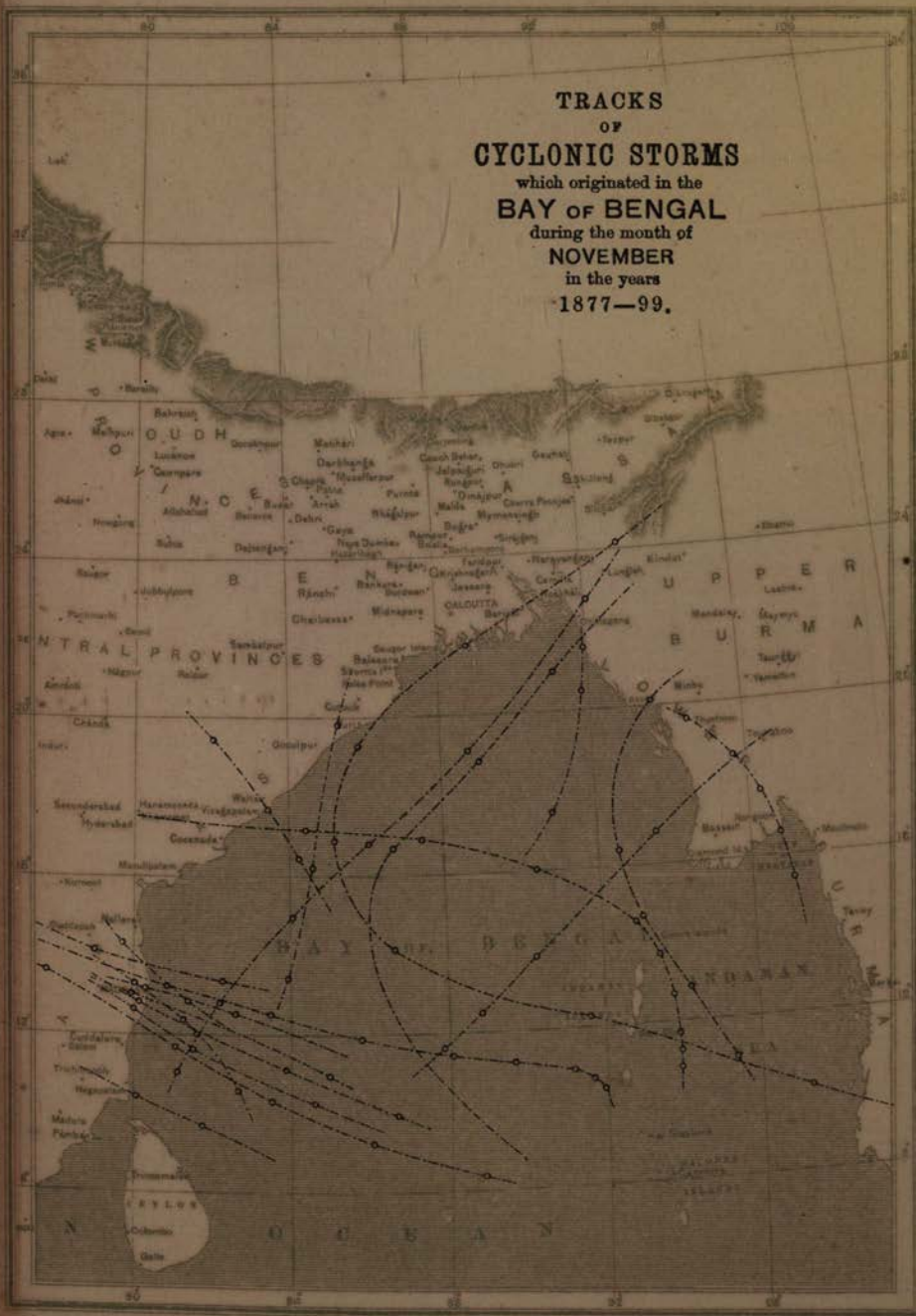

TRACKS
OF
CYCLONIC STORMS
which originated in the
BAY OF BENGAL
during the month of
JUNE
in the years
1888—99.
BAY OF BENGAL
ANDAMAN SEA
INDIAN OCEAN
CENTRAL PROVINCES
UPPER BURMA
CALCUTTA
MADRAS
CEYLON

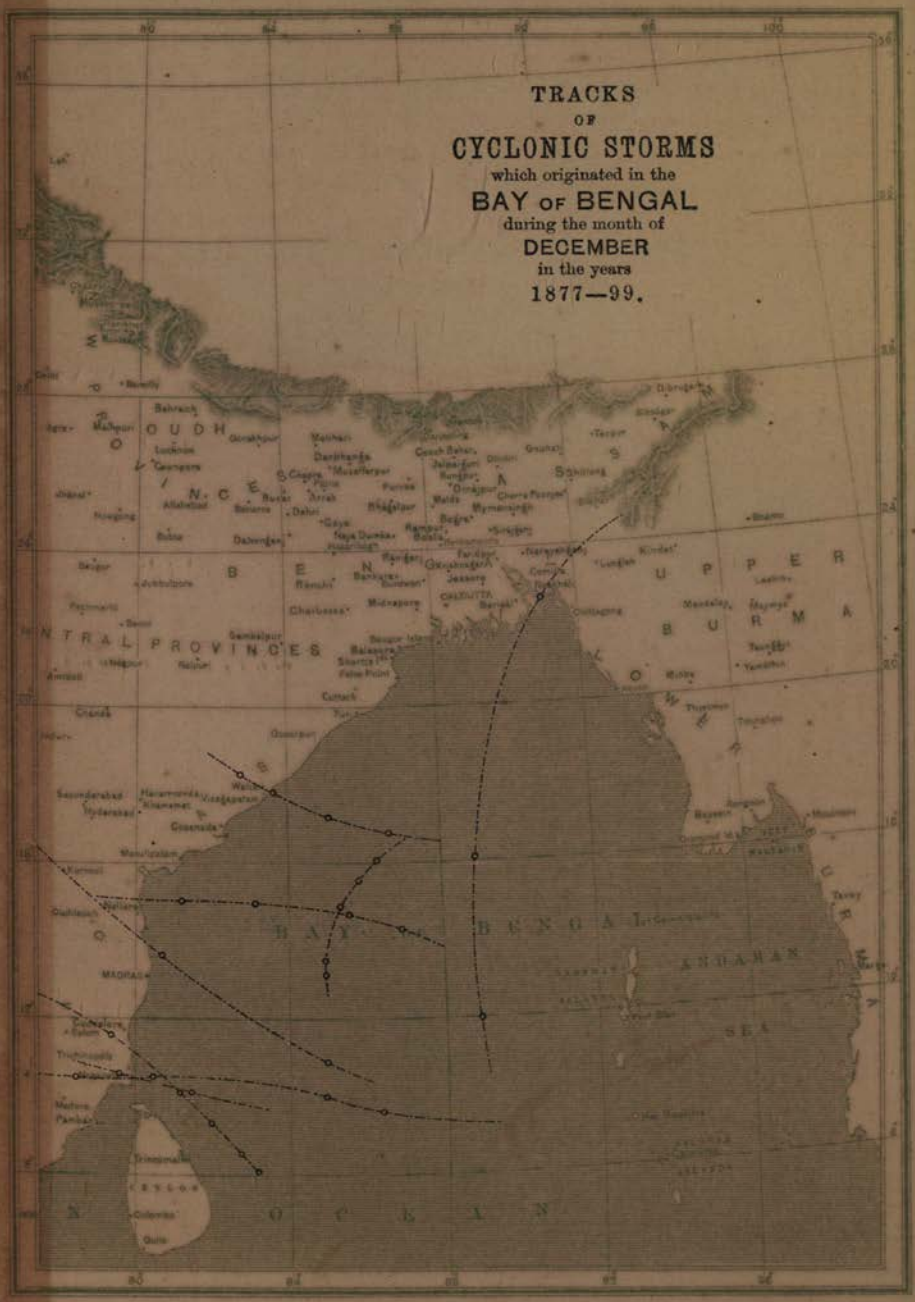

TRACKS
OF
CYCLONIC STORMS
which originated in the
BAY OF BENGAL
during the month of
JULY
in the years
1888—99.
BAY OF BENGAL
ANDAMAN
SEA
CALCUTTA
MADRAS
CEYLON
Colombo
Galle
Trincomalee
UPPER
BURMA


TRACKS
OF
CYCLONIC STORMS
which originated in the
BAY OF BENGAL
during the month of
AUGUST
in the years
1888—99.
BAY OF BENGAL
ANDAMAN
SEA
UPPER
BURMA
LOWER
BURMA
OUDH
CENTRAL PROVINCES
INDIAN OCEAN


TRACKS
OF
CYCLONIC STORMS
which originated in the
BAY OF BENGAL
during the month of
SEPTEMBER
in the years
1888—99.
BAY OF BENGAL
ANDAMAN
INDIAN OCEAN
CEYLON
UPPER BURMA


TRACKS
OF
CYCLONIC STORMS
which originated in the
BAY OF BENGAL
during the month of
OCTOBER
in the years
1888—99.
OUDH
N. W. PROVINCES
CENTRAL PROVINCES
BENGAL
UPPER BURMA
LOWER BURMA
BAY OF BENGAL
ANDAMAN
INDIAN OCEAN


TRACKS
OF
CYCLONIC STORMS
which originated in the
BAY OF BENGAL
during the month of
NOVEMBER
in the years
1877—99.
OUDH
CENTRAL PROVINCES
BENGAL
UPPER BURMA
CALCUTTA
BAY OF BENGAL
ANDAMAN
CEYLON
INDIAN OCEAN


TRACKS
OF
CYCLONIC STORMS
which originated in the
BAY OF BENGAL
during the month of
DECEMBER
in the years
1877—99.
OUDH
BENGAL
UPPER
BURMA
CENTRAL PROVINCES
BAY OF BENGAL
ANDAMAN
SEA
CEYLON
INDIAN OCEAN

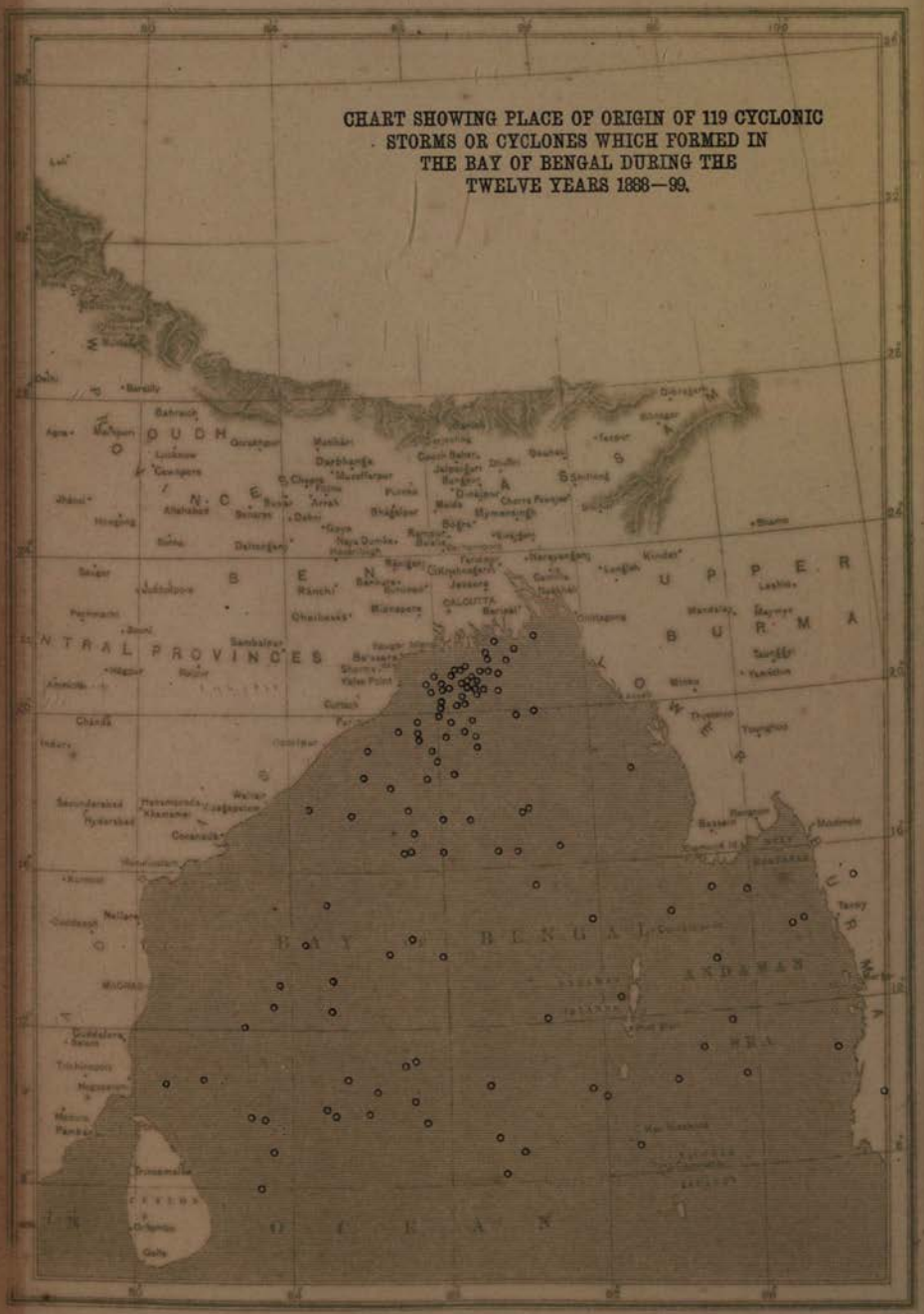
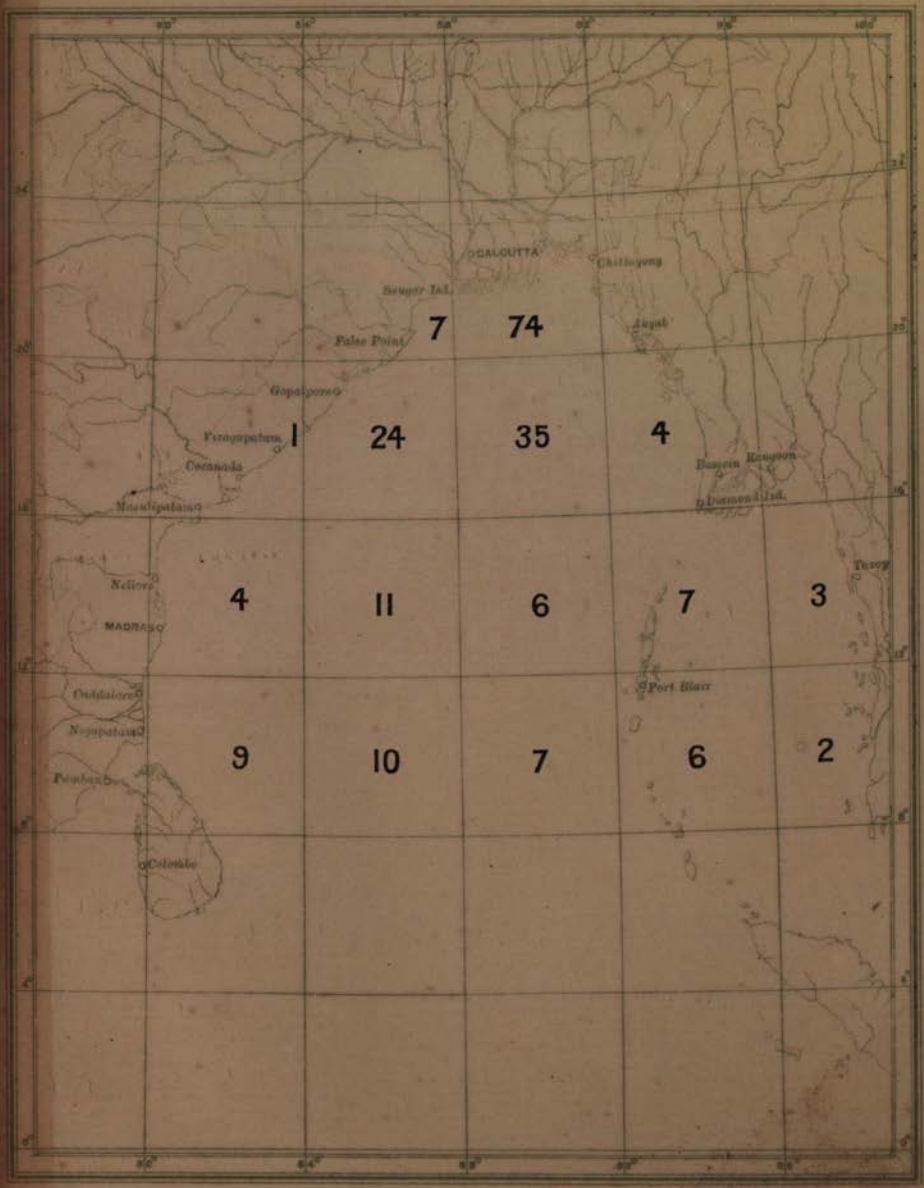
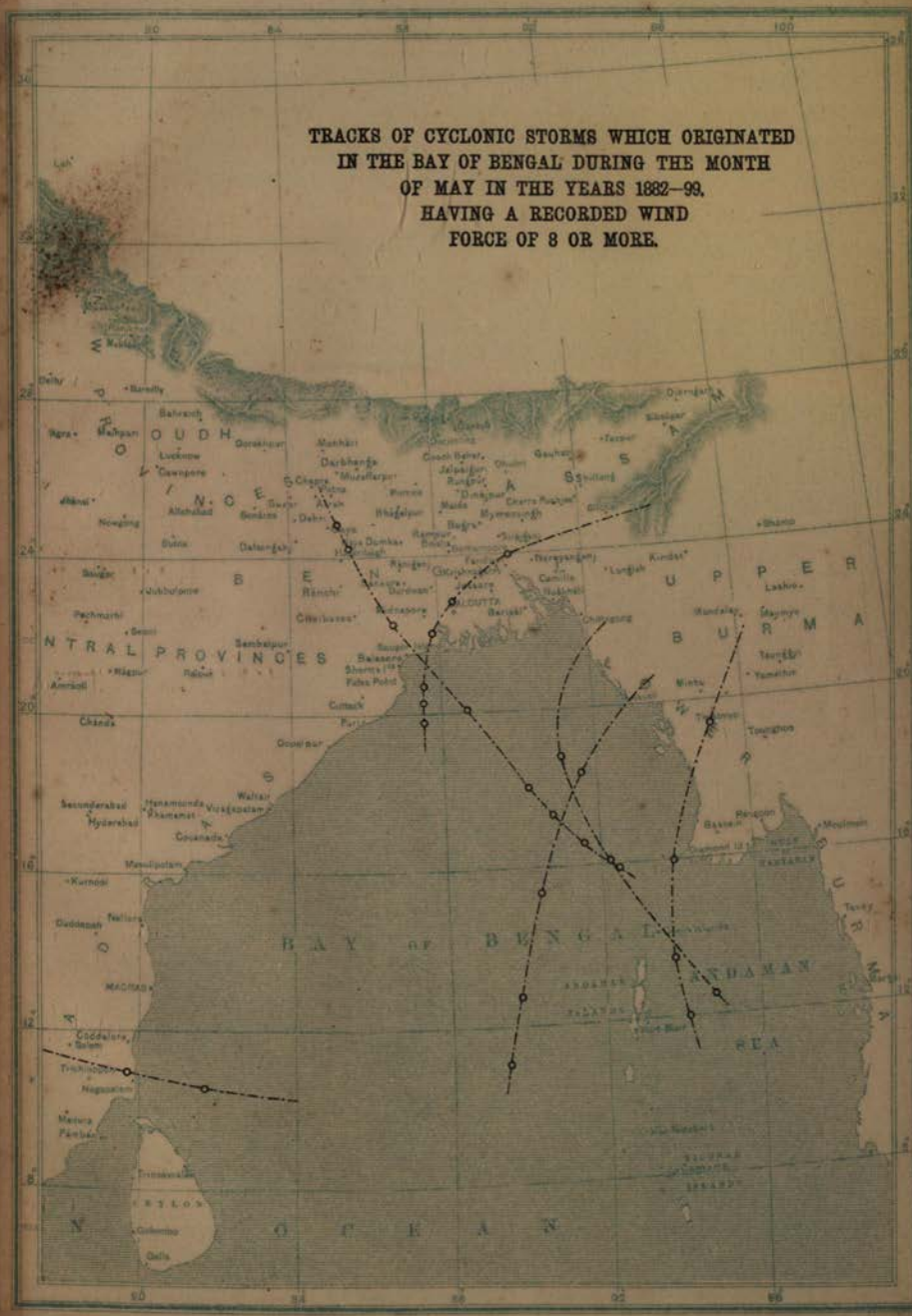
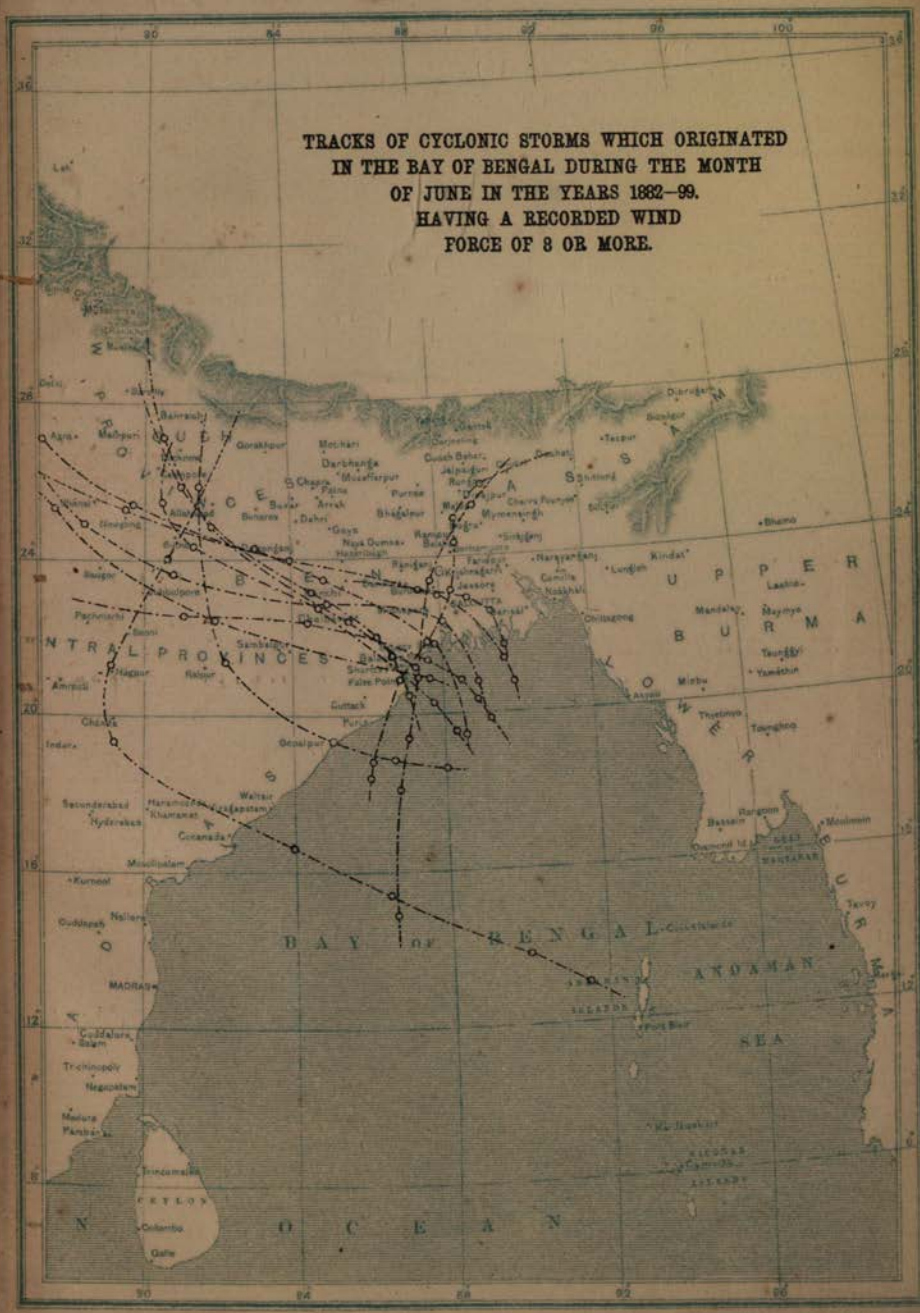


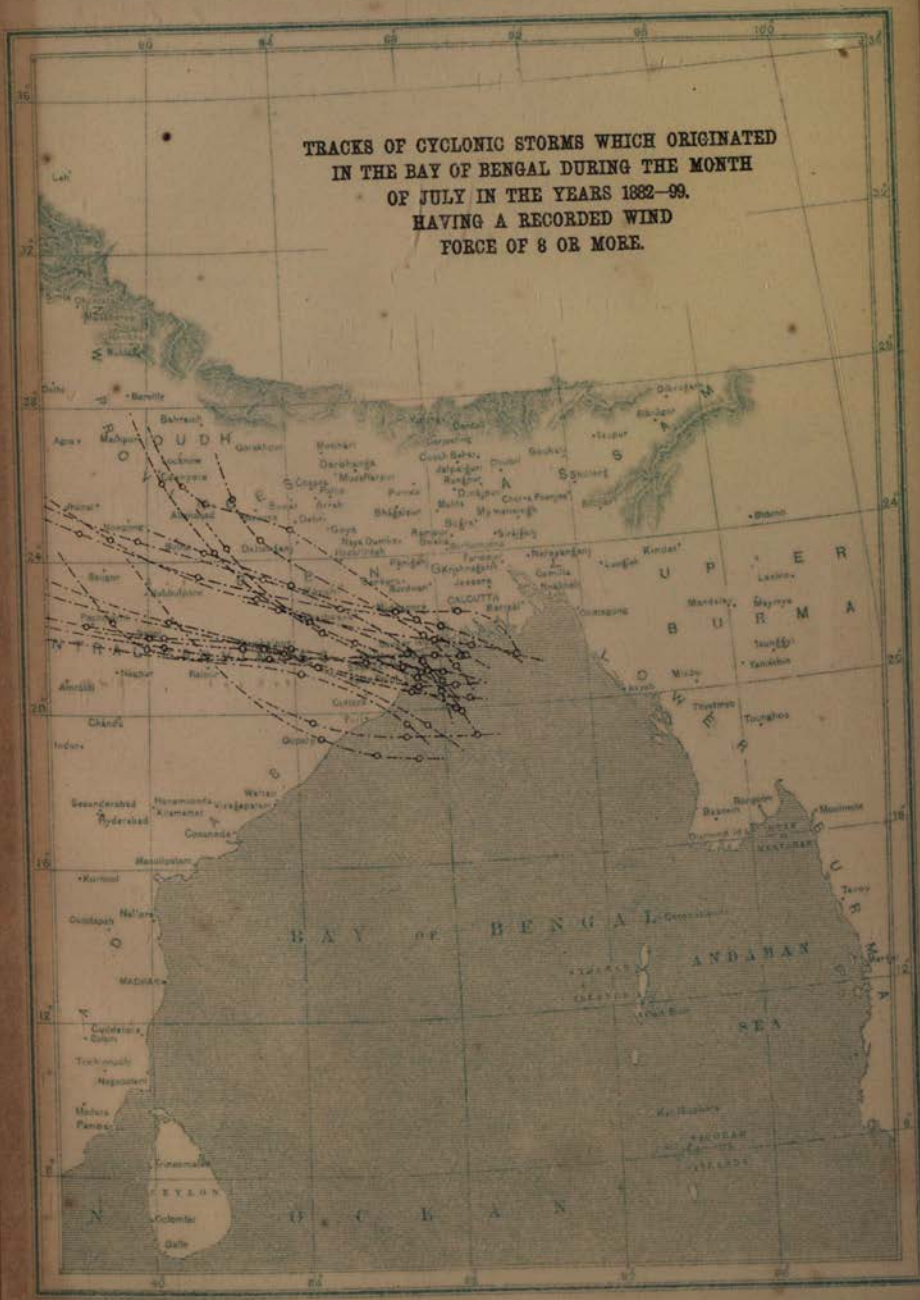
CHART SHOWING PLACE OF ORIGIN OF 119 CYCLONIC
STORMS OR CYCLONES WHICH FORMED IN
THE BAY OF BENGAL DURING THE
TWELVE YEARS 1888—99.
BAY OF BENGAL
ANDAMAN
INDIAN OCEAN
CALCUTTA
CEYLON

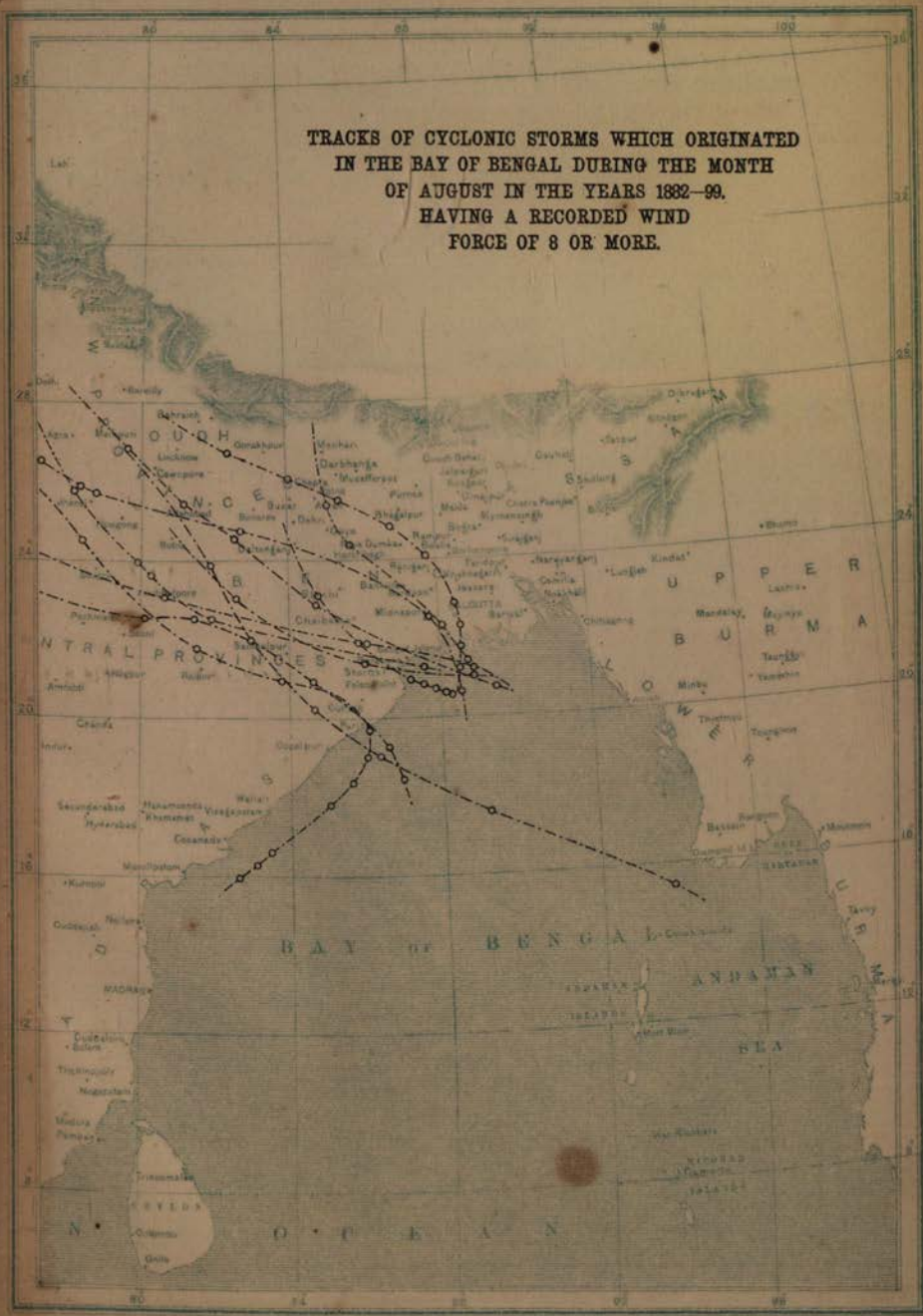
CHART SHOWING NUMBER OF STORMS ORIGINATING IN EACH SECTION OF THE BAY DURING THE PERIOD 1877—1899.

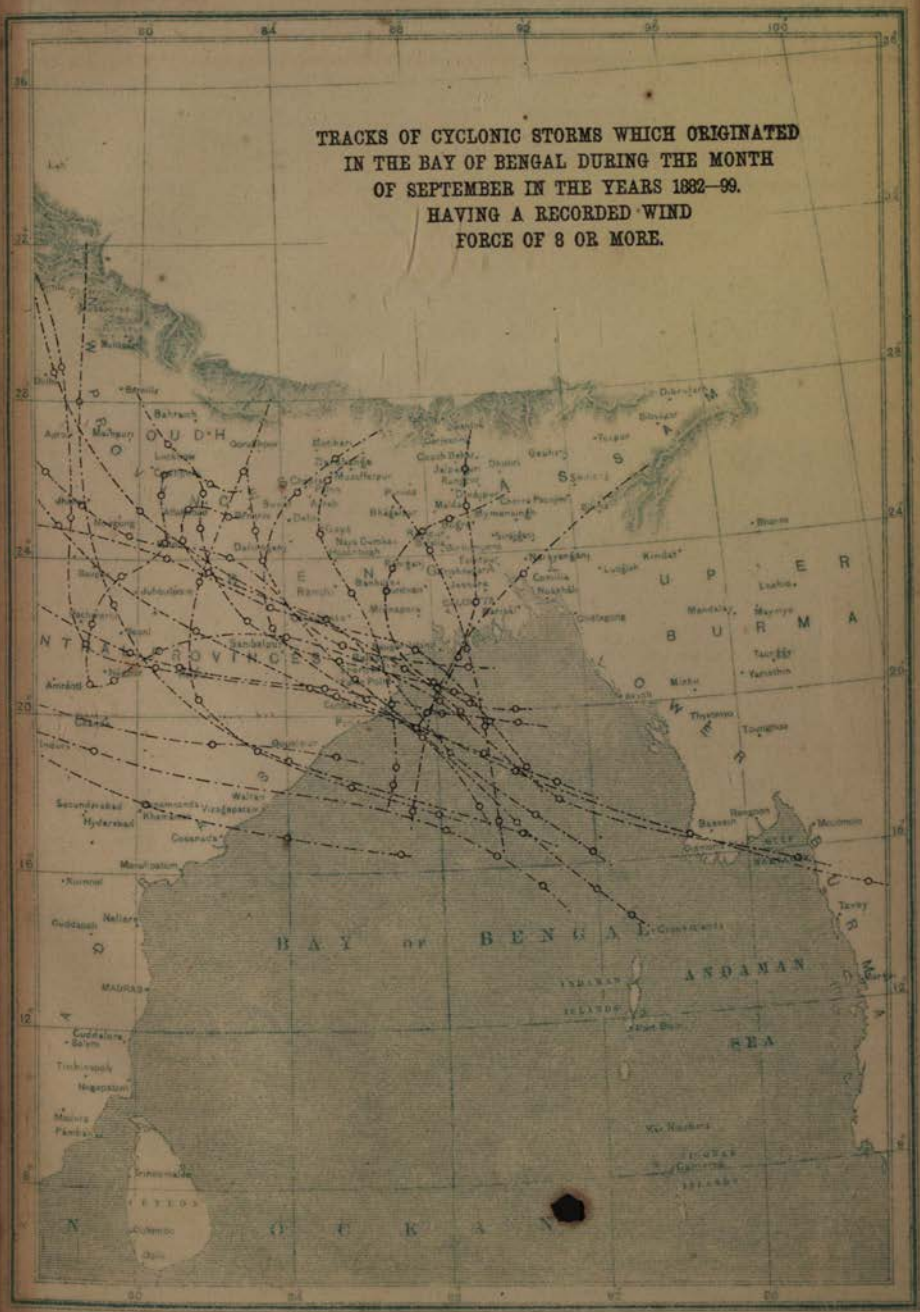


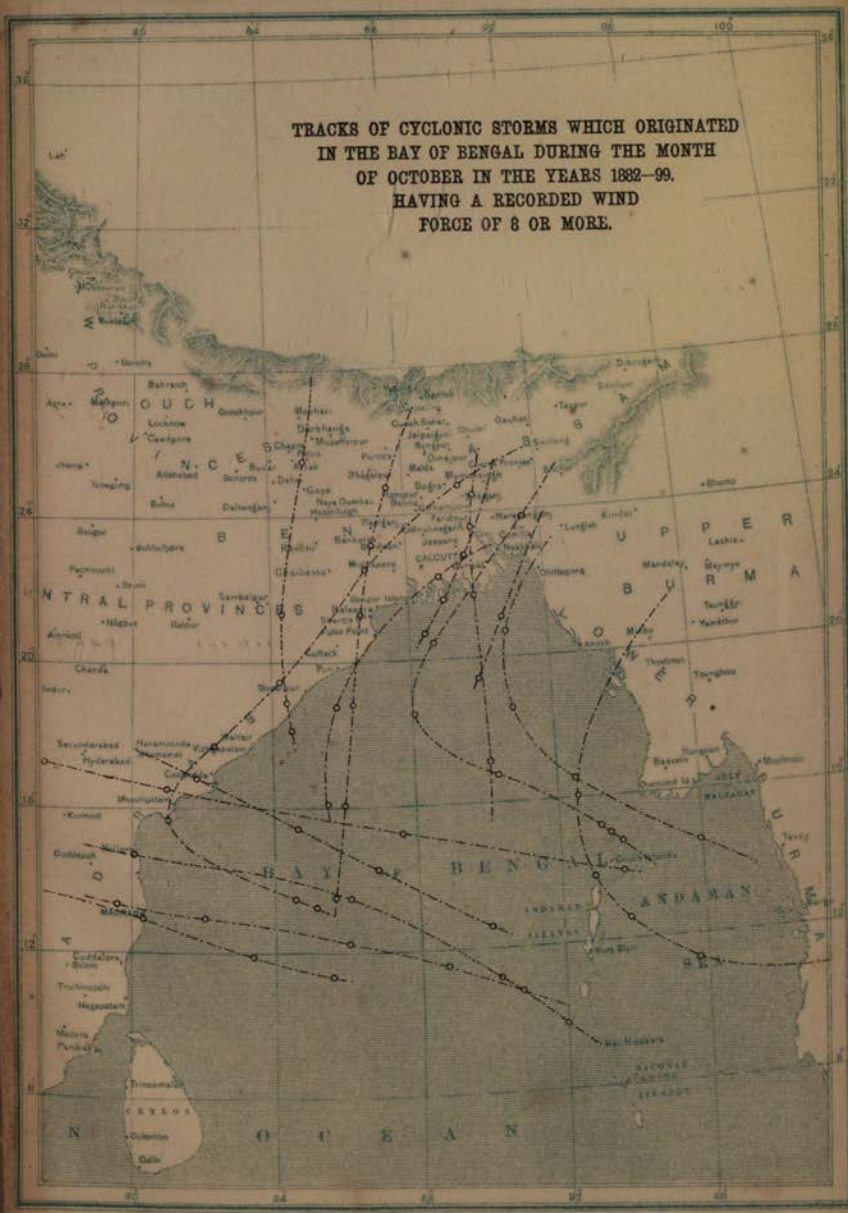

TRACKS OF CYCLONIC STORMS WHICH ORIGINATED
IN THE BAY OF BENGAL DURING THE MONTH
OF MAY IN THE YEARS 1882—99.
HAVING A RECORDED WIND
FORCE OF 8 OR MORE.
BAY OF BENGAL
ANDAMAN SEA
INDIAN OCEAN
CEYLON
BURMA
CALCUTTA
MADRAS

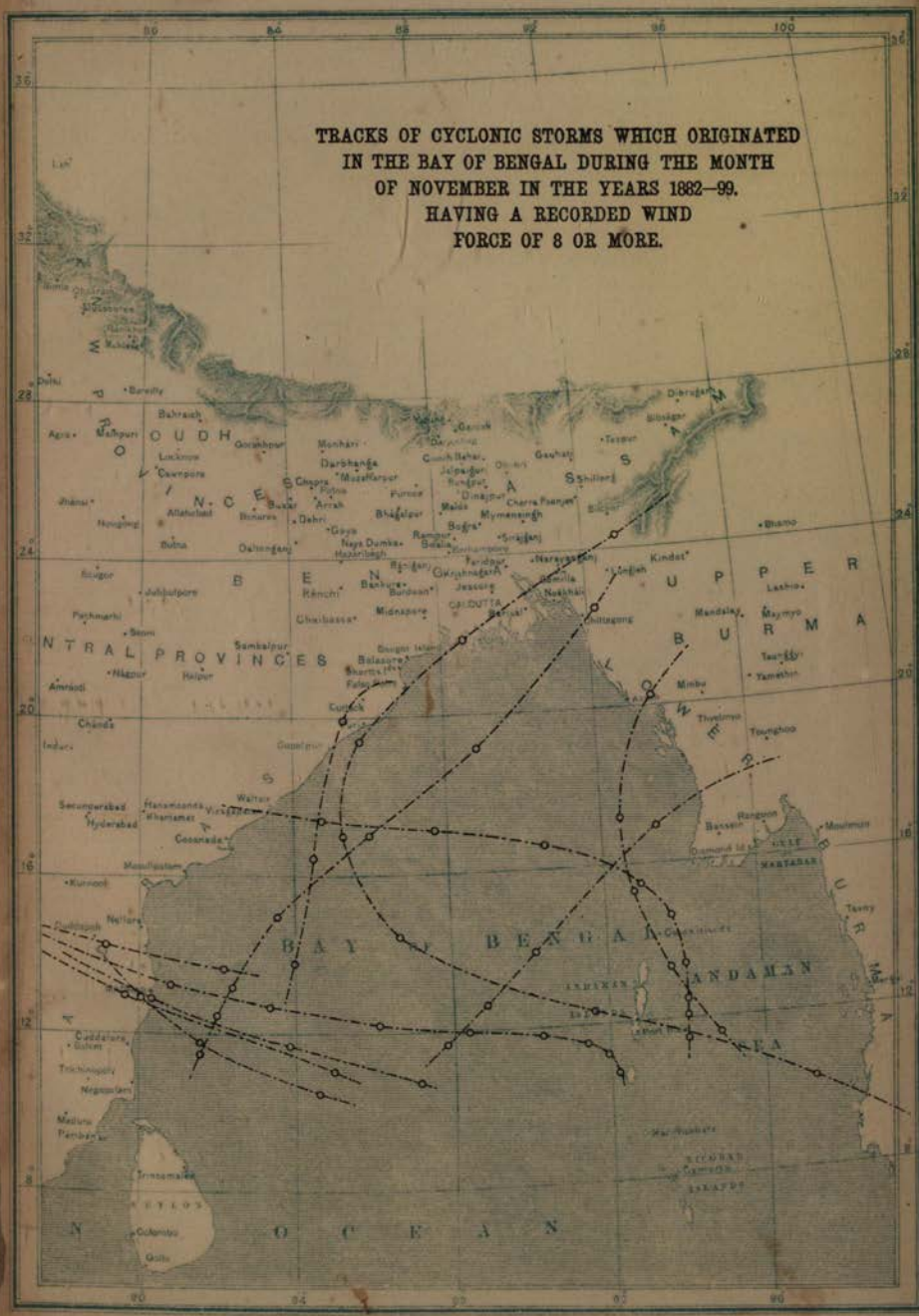

TRACKS OF CYCLONIC STORMS WHICH ORIGINATED
IN THE BAY OF BENGAL DURING THE MONTH
OF JUNE IN THE YEARS 1882–99.
HAVING A RECORDED WIND
FORCE OF 8 OR MORE.
BAY OF BENGAL
ANDAMAN SEA
ARABIAN SEA
INDIAN OCEAN
CEYLON
MADRAS
UPPER BURMA
CENTRAL PROVINCES

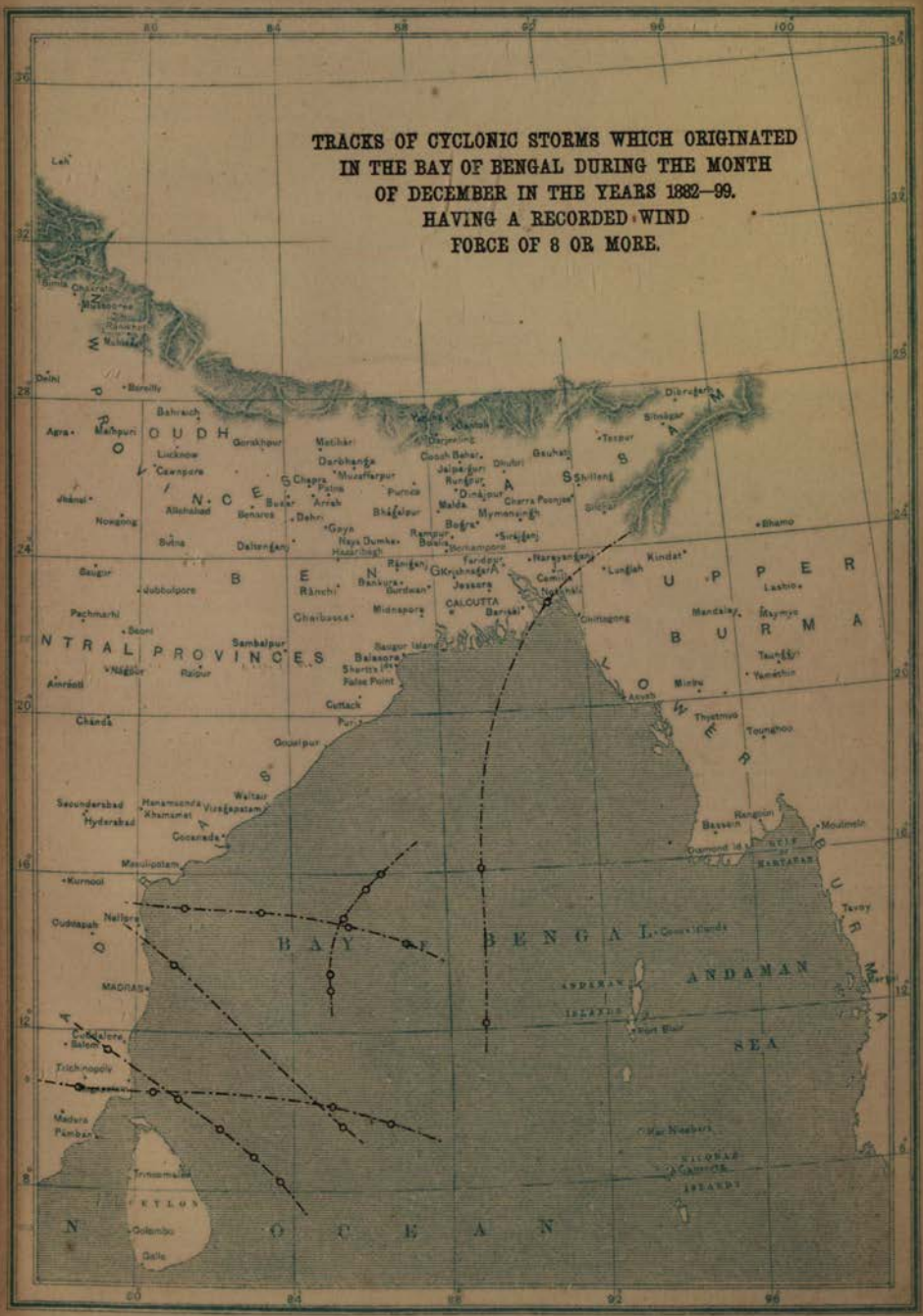

TRACKS OF CYCLONIC STORMS WHICH ORIGINATED
IN THE BAY OF BENGAL DURING THE MONTH
OF JULY IN THE YEARS 1882—99.
HAVING A RECORDED WIND
FORCE OF 8 OR MORE.
BAY OF BENGAL
ANDAMAN SEA
CEYLON
INDIAN OCEAN
CALCUTTA
UPPER BURMA
LOWER BURMA
OUDH
NORTH-WEST PROVINCES


TRACKS OF CYCLONIC STORMS WHICH ORIGINATED
IN THE BAY OF BENGAL DURING THE MONTH
OF AUGUST IN THE YEARS 1882–99.
HAVING A RECORDED WIND
FORCE OF 8 OR MORE.
BAY OF BENGAL
ANDAMAN
SEA
INDIAN OCEAN
UPPER
BURMA
LOWER
CENTRAL PROVINCES
MADRAS
CEYLON

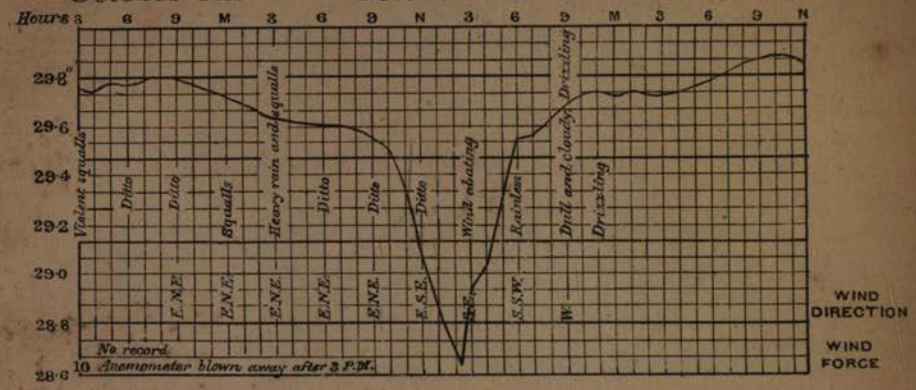

TRACKS OF CYCLONIC STORMS WHICH ORIGINATED
IN THE BAY OF BENGAL DURING THE MONTH
OF SEPTEMBER IN THE YEARS 1882—99.
HAVING A RECORDED WIND
FORCE OF 8 OR MORE.
BAY OF BENGAL
ANDAMAN
SEA
INDIAN
OCEAN
UPPER
BURMA
MADRAS
CEYLON


TRACKS OF CYCLONIC STORMS WHICH ORIGINATED
IN THE BAY OF BENGAL DURING THE MONTH
OF OCTOBER IN THE YEARS 1882—99.
HAVING A RECORDED WIND
FORCE OF 8 OR MORE.
BAY OF BENGAL
ANDAMAN
ISLANDS
CEYLON
INDIAN OCEAN
UPPER BURMA
LOWER BURMA
CENTRAL PROVINCES
NORTH-WESTERN PROVINCES
Calcutta
Madras
Bombay
Lucknow
Nagpur
Hyderabad
Trichinopoly
Colombo
Galle
Rangoon
Mandalay

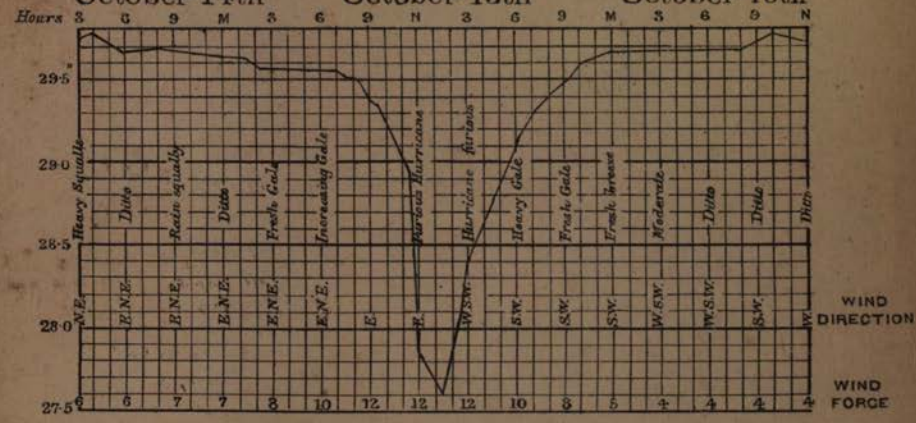

TRACKS OF CYCLONIC STORMS WHICH ORIGINATED
IN THE BAY OF BENGAL DURING THE MONTH
OF NOVEMBER IN THE YEARS 1882—99.
HAVING A RECORDED WIND
FORCE OF 8 OR MORE.
BAY OF BENGAL
ANDAMAN
OCEAN
CEYLON
UPPER BURMA
OUDH
CENTRAL PROVINCES
Delhi
Bareilly
Lucknow
Cawnpore
Allahabad
Benares
Calcutta
Darjeeling
Gauhati
Shillong
Akyab
Rangoon
Mandalay
Madras
Cuddalore
Trichinopoly
Negapatam
Madura
Tuticorin
Trincomalee
Colombo
Galle


TRACKS OF CYCLONIC STORMS WHICH ORIGINATED IN THE BAY OF BENGAL DURING THE MONTH OF DECEMBER IN THE YEARS 1882—99. HAVING A RECORDED WIND FORCE OF 8 OR MORE.
BAY OF BENGAL
ANDAMAN SEA
ANDAMAN ISLANDS
NICOBAR ISLANDS
INDIAN OCEAN
CALCUTTA
Chittagong
Akyab
Rangoon
Moulmein
Bassein
Mergui
Tavoy
Diamond Is.
Port Blair
Car Nicobar
Colombo
Galle
Trincomalee
Pamban
Madura
Trichinopoly
Salem
Coimbatore
Cuddalore
Pondicherry
Madras
Masulipatam
Cocanada
Vizagapatam
Hyderabad
Secunderabad
Kurnool
Nellore
Ongole
Chanda
Gopalpur
Cuttack
False Point
Balasore
Sambalpur
Ranchi
Midnapore
Jessore
Barisal
Noakhali
Faridpur
Rampur Boalia
Berhampore
Murshidabad
Jubbulpore
Nagpur
Amraoti
Pachmarhi
Seoni
Gaya
Patna
Benares
Allahabad
Lucknow
Cawnpore
Agra
Mathpuri
Bareilly
Delhi
Gorakhpur
Darbhanga
Muzaffarpur
Chapra
Arrah
Buxar
Dehri
Bhagalpur
Purnea
Rungpur
Dinajpur
Jalpaiguri
Cooch Behar
Darjeeling
Dhubri
Gauhati
Shillong
Cherra Poonjee
Mymensingh
Sylhet
Silchar
Tezpur
Dibrugarh
Sibsagar
Lakhimpur
Bhamo
Myitkyina
Mandalay
Myingyan
Thayetmyo
Toungoo
Prome
Henzada
Minbu
Yenangyaung
Yamethin
Taunggyi
Lashio
Kindat
Lungleh
Narayanganj
Dacca
Sirajganj
Bogra
Rangpur
Gaya
Nowgong
Bhind
Jhansi
Simla
Chakrata
Mussoorie
Ranikhet
Almora
Leh

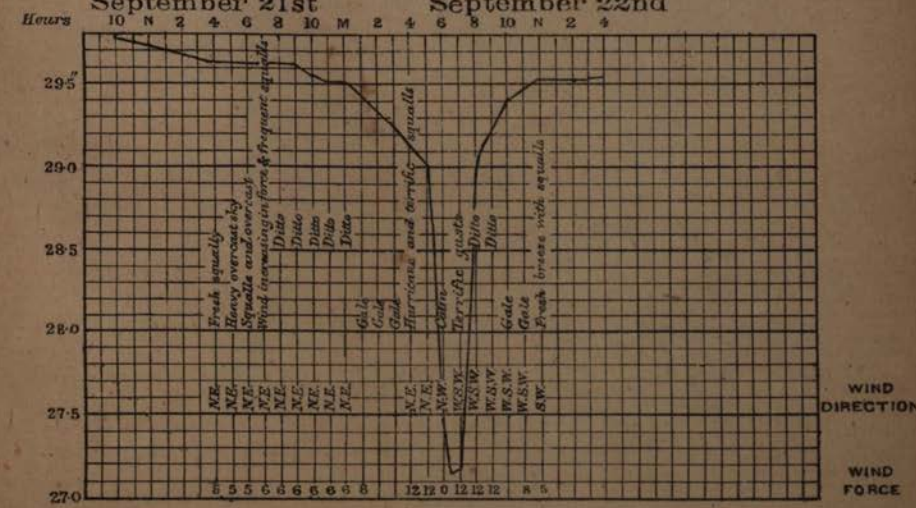
CALCUTTA CYCLONE, 1864.



MIDNAPORE CYCLONE, 1874.



FALSE POINT CYCLONE, 1885.



Litho By J.F. Mundle.

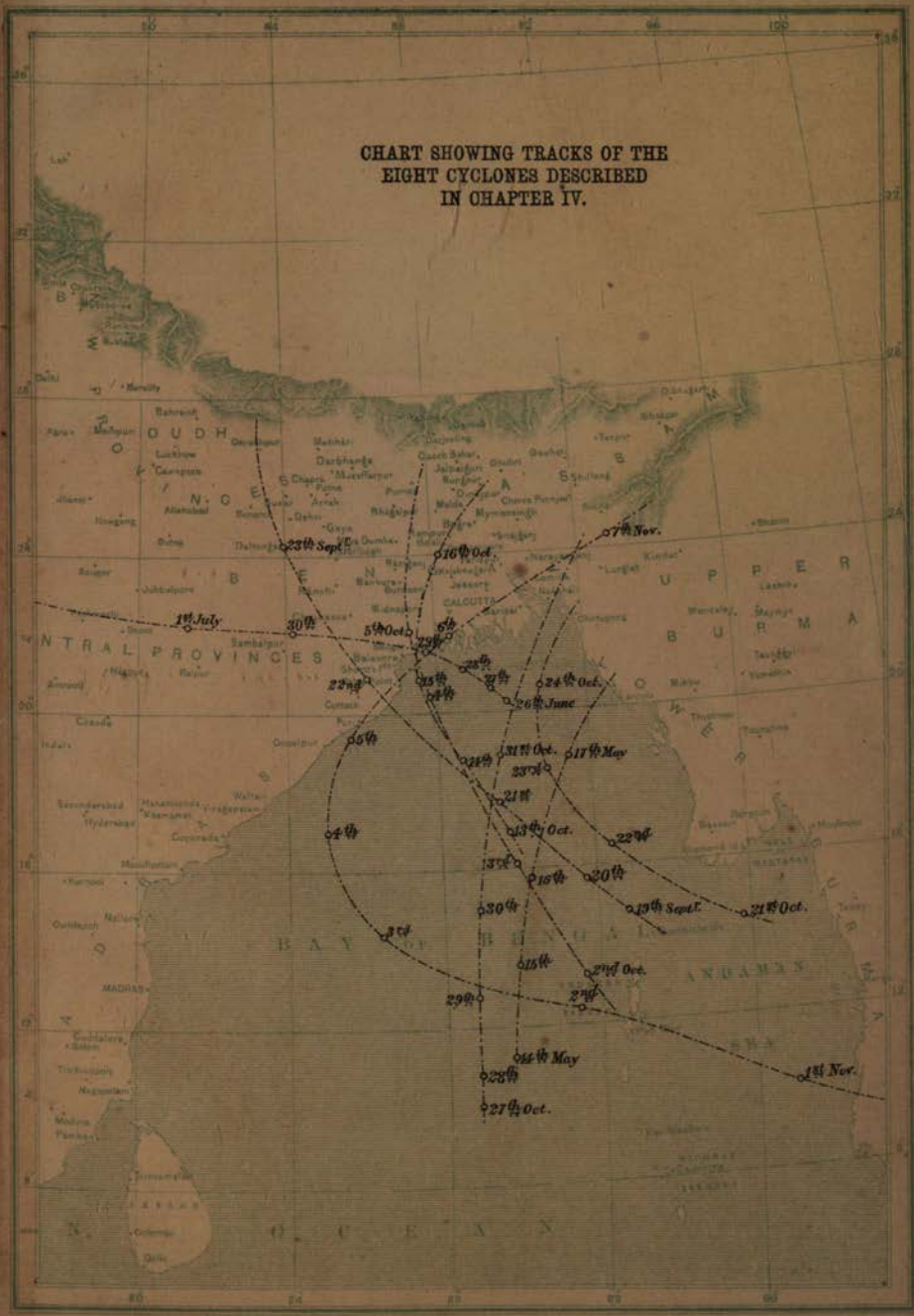


CHART SHOWING TRACKS OF THE
EIGHT CYCLONES DESCRIBED
IN CHAPTER IV.
1st July
30th
5th Oct.
6th
29th
23rd Sept.
16th Oct.
7th Nov.
24th Oct.
26th June
22nd
25th
24th
15th
17th May
31st Oct.
23rd
21st
13th Oct.
22nd
20th
19th Sept.
21st Oct.
16th
30th
15th
2nd Oct.
29th
11th May
28th
27th Oct.
1st Nov.
BAY OF BENGAL
ANDAMAN
MADRAS
CALCUTTA
OUDH
N. W. PROVINCES
CENTRAL PROVINCES
UPPER BURMA
N. INDIAN OCEAN

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Mr. Sangi
on 12 April, 2019

HAND-BOOK

OF

CYCLONIC STORMS IN THE BAY OF BENGAL.

FOR THE USE OF SAILORS.

VOL. II—PLATES

BY

JOHN ELIOT, M.A., F.R.S., C.I.E.,

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